

**CITY OF COEUR D'ALENE (PWSNO 1280053)
SOURCE WATER ASSESSMENT REPORT**

May 14, 2002



**State of Idaho
Department of Environmental Quality**

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Executive Summary

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the act. This risk assessment is based on a land use inventory in the well recharge zone, sensitivity factors associated with how the well was constructed, and aquifer characteristics.

This report, *Source Water Assessment for the City of Coeur d'Alene*, describes the public drinking water wells; the well recharge zone and potential contaminant sites located inside the recharge zone boundaries. This assessment, taken into account with local knowledge and concerns, should be used as a planning tool to develop and implement appropriate protection measures for this public water system. **The results should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the water system.**

Seven wells pumping from the Rathdrum Prairie Aquifer supply drinking water for the 28,790 people served by the City of Coeur d'Alene public water system. In general, the direction of ground water flow to the wells is north and slightly westward from the edge of the Rathdrum Prairie Aquifer defined by Lake Coeur d'Alene and the Spokane River. Consequently, most of the well recharge zones lie under densely developed urban land where numerous activities pose a potential threat to ground water quality.

The Coeur d'Alene water system is well run and maintained, but the wells all ranked moderately to highly susceptible to the four classes of contaminants regulated by the Safe Drinking Water Act. The susceptibility rankings are specific to a particular category of contaminants. A high susceptibility rating relative to one potential contaminant does not mean that the well is at the same risk for all other potential contaminants. In most cases, risk factors associated with local geology counted more heavily against the wells than land use and number of potential contaminant sites in the recharge zone. Water sampling results automatically triggered high susceptibility rankings for the Hanley well relative to inorganic chemical and volatile organic chemical contaminants; the Fourth St. and Honeysuckle wells relative to volatile organic chemical contaminants; and the Atlas well relative to synthetic organic chemical contaminants.

This assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a “pristine” area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

Due to the time involved with the movement of ground water, source water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. For assistance in developing protection strategies, please contact your regional Department of Environmental Quality office.

SOURCE WATER ASSESSMENT FOR THE CITY OF COEUR D'ALENE

Section 1. Introduction - Basis for Assessment

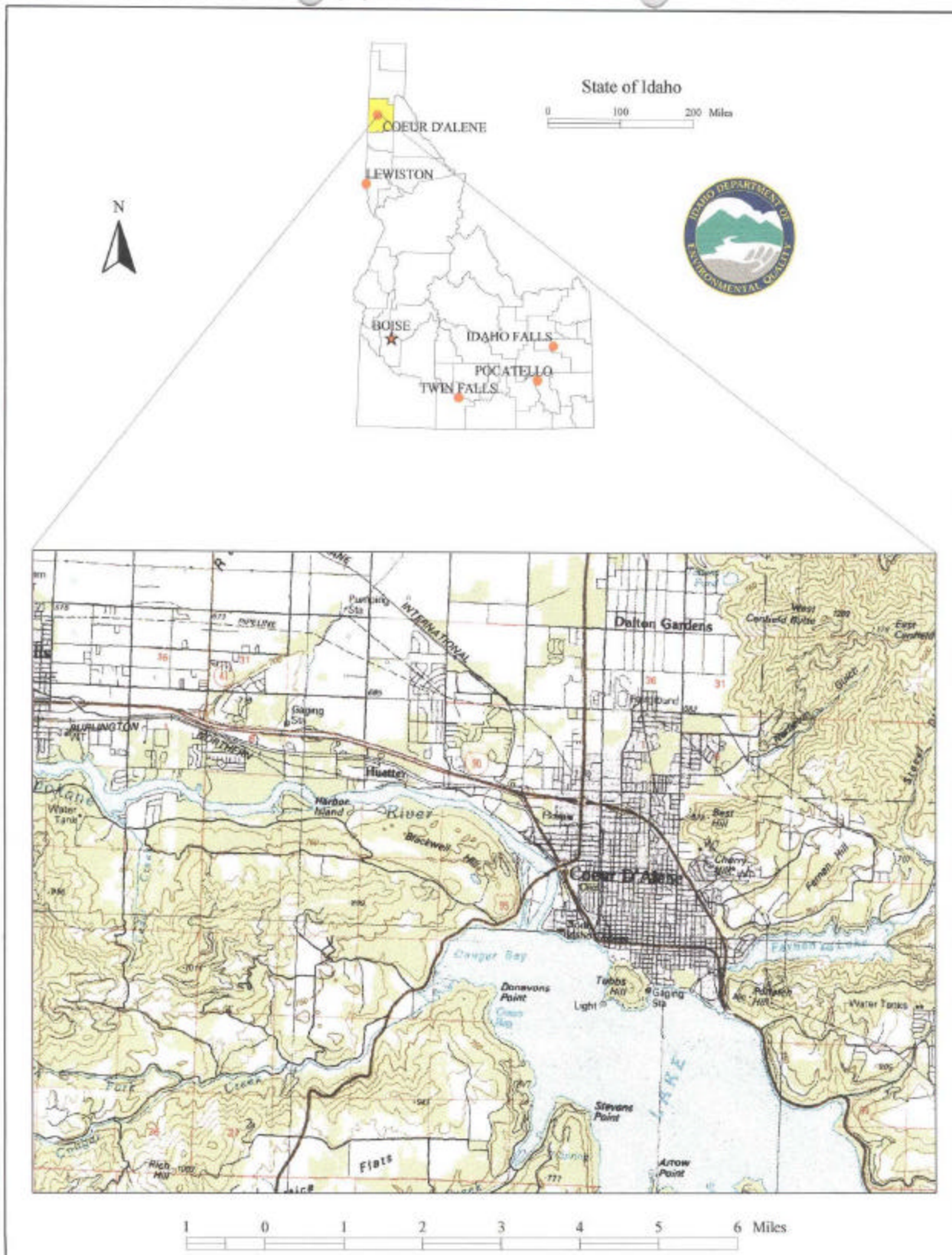
The following sections contain information necessary for understanding how and why this assessment was conducted. **It is important to review this information to understand what the ranking of this source means.** A map showing the delineated source water assessment area and an inventory of significant potential sources of contamination identified within that area are included. The ground water susceptibility analysis worksheets used to develop this assessment are attached.

Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess every public drinking water source in Idaho for its relative susceptibility to contaminants regulated by the Safe Drinking Water Act. These assessments are based on a land use inventory inside the delineated recharge zones, sensitivity factors associated with how the well is constructed, and aquifer characteristics. The state must complete more than 2900 assessments by May of 2003. Because resources and the time available to accomplish assessments are limited, an in-depth, site-specific investigation for every public water system is not possible.

The results of the source water assessment should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the water system. The ultimate goal of this assessment is to provide data to local communities for developing a protection strategy for their drinking water supply. The Idaho Department of Environmental Quality recognizes that pollution prevention activities generally require less time and money to implement than treating a public water supply system once it has been contaminated. DEQ encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a source water protection program should be determined by the local community based on its own needs and limitations. Wellhead or source water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Figure 1. Geographic Location City of Coeur d'Alene



Section 2. Preparing for the Assessment

Defining the Zones of Contribution - Delineation

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the well recharge area into time of travel zones indicating the number of years necessary for a particle of water to reach a well. DEQ used a refined computer model approved by the EPA to determine the time of travel (TOT) for water pumped from the Rathdrum Prairie Aquifer. The computer model used data assimilated by DEQ from a variety of sources including volume estimates for the City of Coeur d'Alene wells prepared by Jim Markley, the city water superintendent, in 1999.

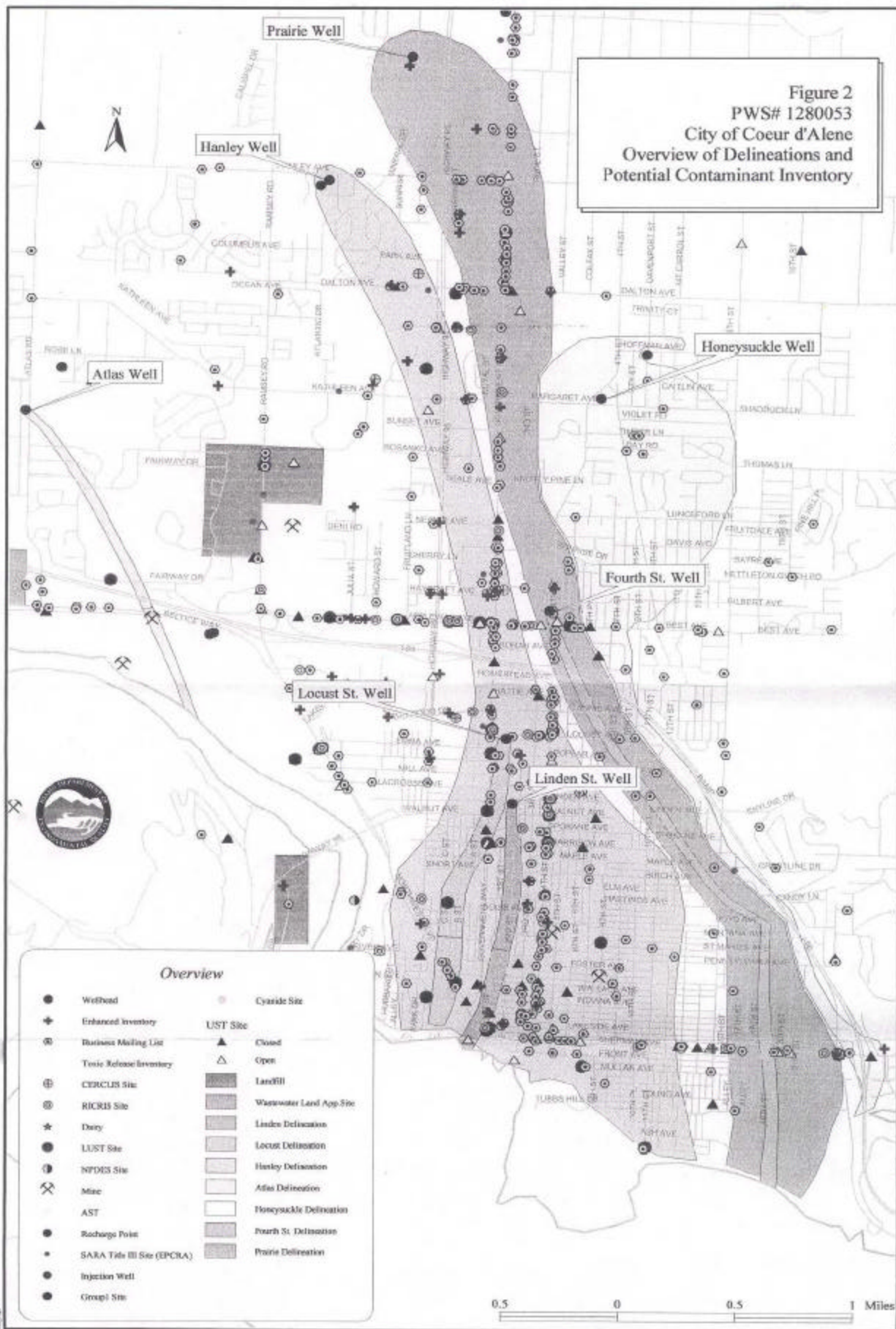
The City of Coeur d'Alene community water system has 12,570 connections serving a population of about 28,790. The city is located on the north side of Lake Coeur d'Alene in Kootenai County, Idaho (Figure 1). Water for domestic and industrial use and for fire protection is supplied by 7 wells pumping from the Rathdrum Prairie Aquifer. Figure 2 is an overview of the recharge zones delineated for all 7 wells and includes symbols depicting locations and types of all potential contaminant sites identified in the vicinity. The Hanley, Honeysuckle and Prairie recharge areas are divided into 0-3, 3-6 and 6-10 year time of travel zones. The recharge zone for the Fourth St. well is divided into 0-3 and 3-6 year time of travel zones and lies inside the 6-10 year time of travel zone for the Prairie well. Water traveling from the edge of the Aquifer reaches the Atlas, Linden St. and Locust St. wells in three years or less. The Linden and Locust delineations overlay the Hanley recharge zone.

Identifying Potential Sources of Contamination

The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of ground water contamination. Inventories for public water systems in Idaho were conducted in two-phases. The first phase involved identifying and documenting potential contaminant sources within the source water assessment delineations through the use of computer databases and Geographic Information System maps developed by DEQ. A map showing the delineations and a table summarizing the results of the database search were then sent to system operators for review and correction during the second or enhanced phase of the inventory process. Jim Markley and the city water department staff completed the enhanced inventories for the City of Coeur d'Alene wells.

Tables in Appendix A, Potential Contaminant Inventories for the City of Coeur d'Alene Wells, list sites identified inside the area delineated for each well. The sites are numbered to correspond to numbers on the maps for the Atlas (Figure 3), Prairie and Fourth St. wells (Figure 4), and the Honeysuckle well (Figure 5). In order to keep the map legible, symbols showing locations of the 206 potential contaminant sites inside the Hanley delineation were left unnumbered (Figure 6). Those sites are identified on the Hanley, Linden and Locust inventory tables by street address.

Figure 2
PWS# 1280053
City of Coeur d'Alene
Overview of Delineations and
Potential Contaminant Inventory



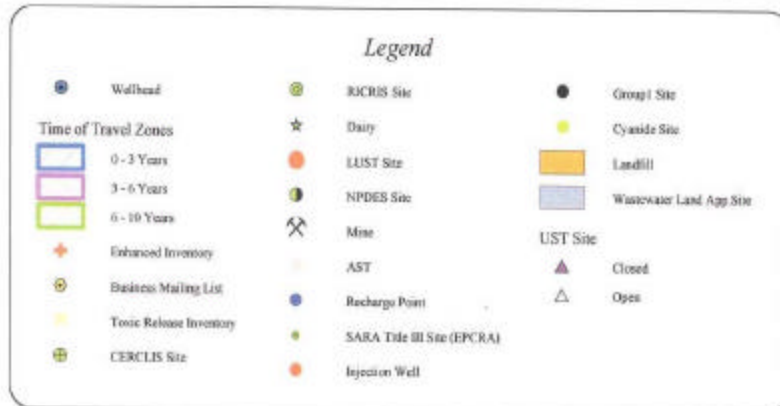
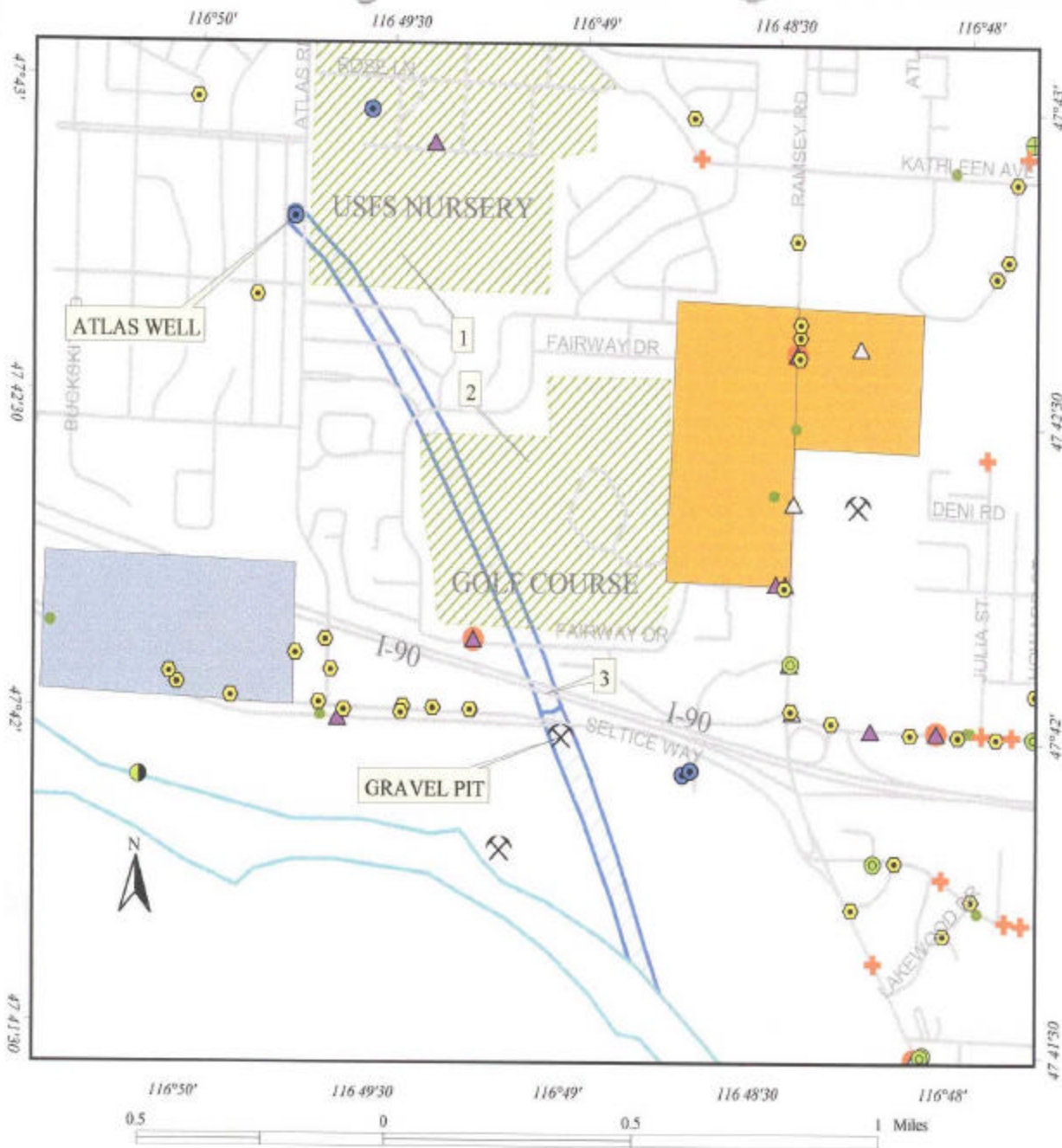
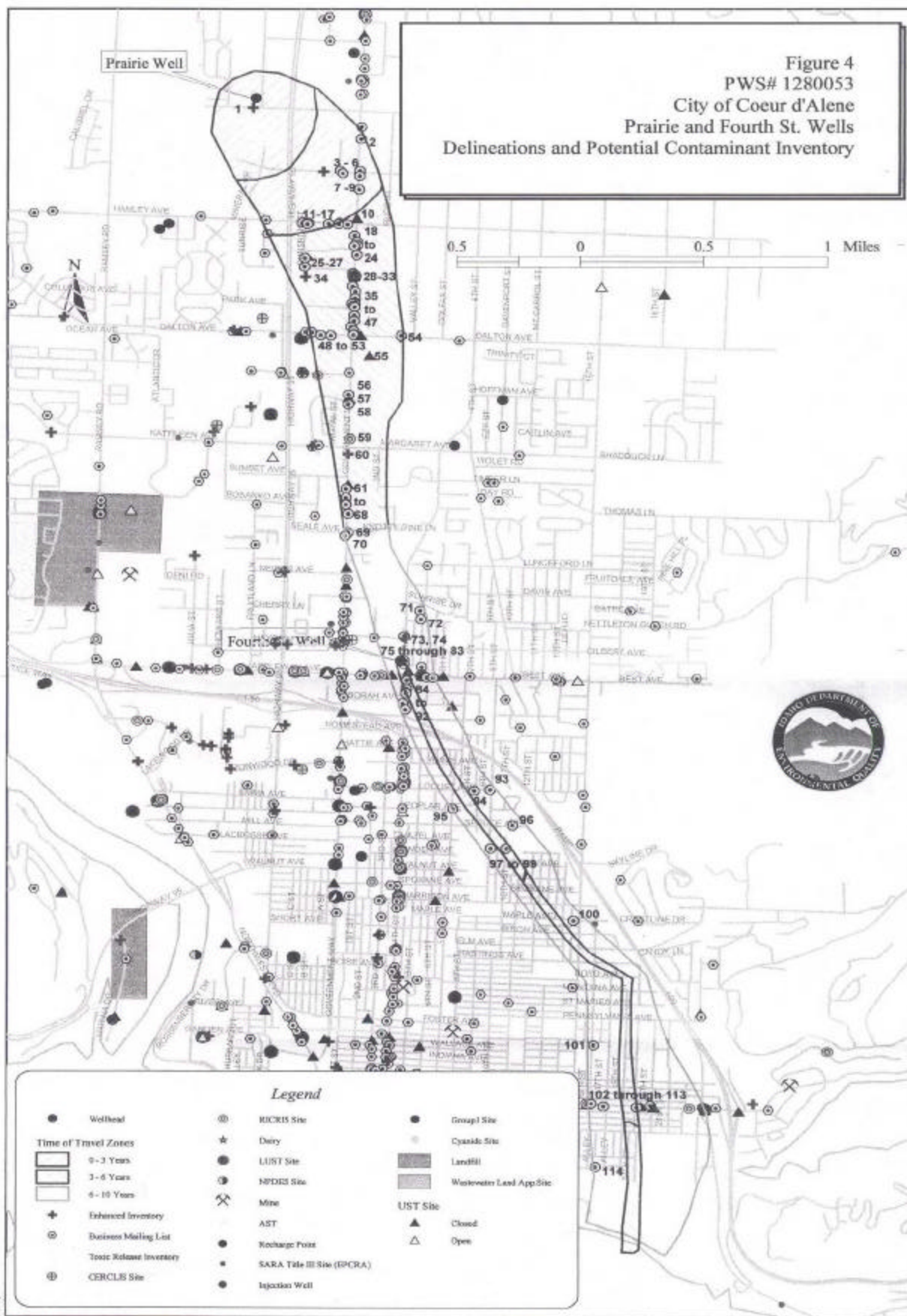


Figure 3
PWS # 1280053
City of Coeur d'Alene
Atlas Well Delineation
and Potential Contaminant Inventory



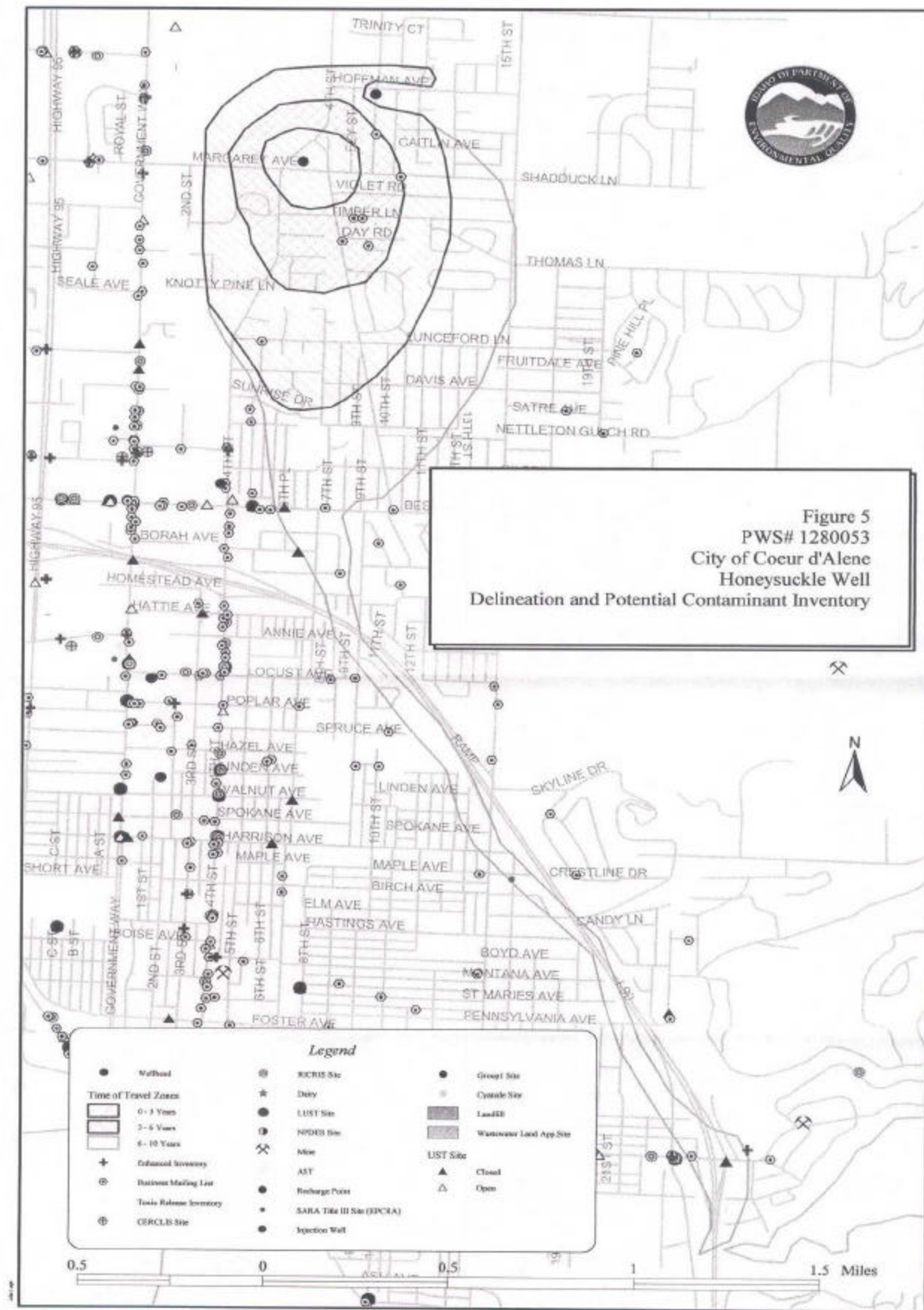
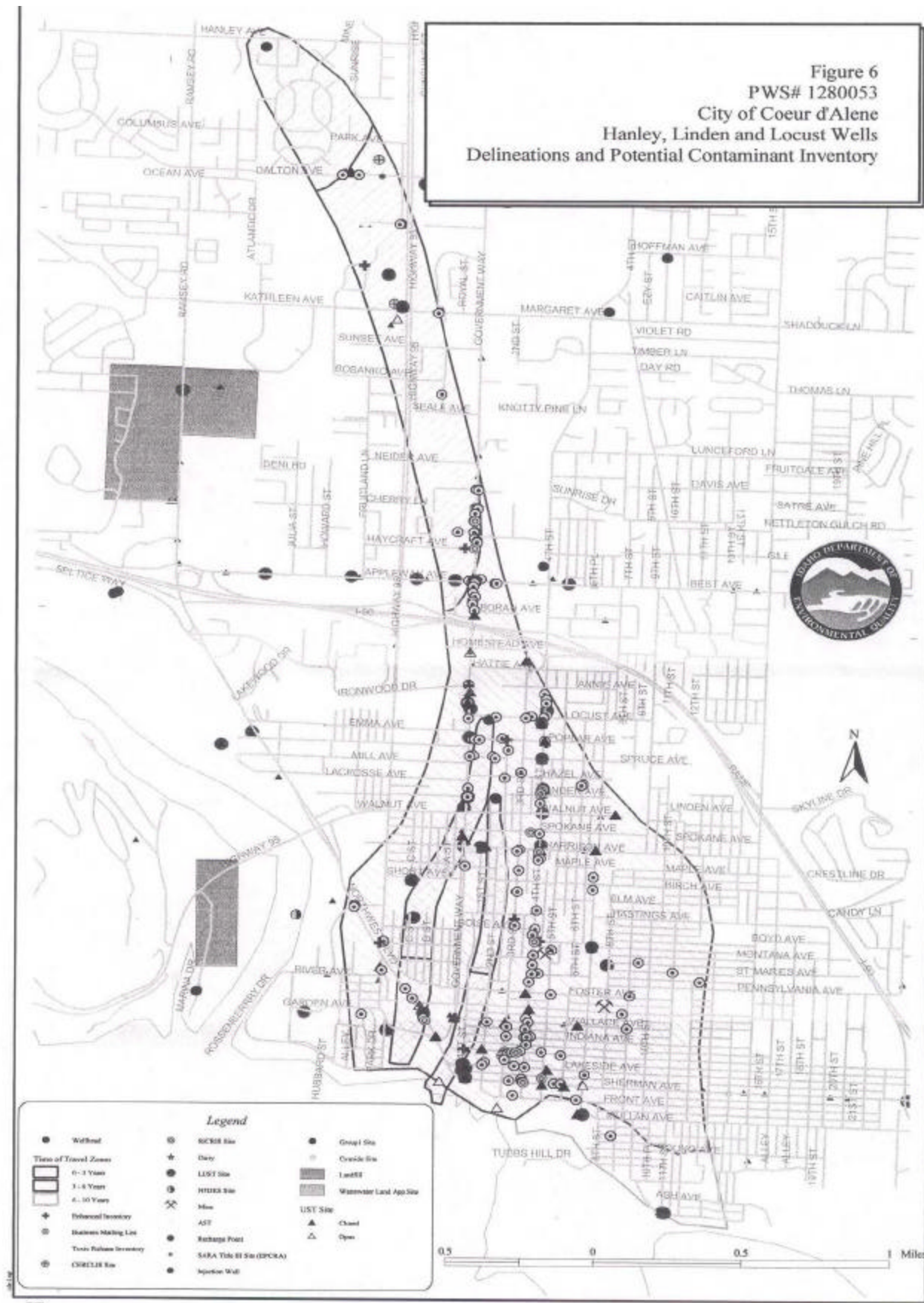


Figure 6
PWS# 1280053
City of Coeur d'Alene
Hanley, Linden and Locust Wells
Delineations and Potential Contaminant Inventory



Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. When a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the potential for contamination exists due to the nature of the business, industry, or operation.

Section 3. Susceptibility Analysis

The susceptibility to contamination of all ground water sources in Idaho is being assessed on the following factors:

- hydrologic characteristics,
- physical integrity of the well,
- land use characteristics, and potentially significant contaminant sources
- historic water quality

The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. A high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for each well is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgement. The following summaries describe the rationale for the susceptibility rankings for the City of Coeur d'Alene wells. A Susceptibility Analysis Worksheet for each well is in Appendix B.

Hydrologic Sensitivity--All Wells

Hydrologic sensitivity scores reflect natural geologic conditions at the well site and in the recharge zone. Information for this part of the analysis is derived from individual well logs and from the soil drainage classification inside the delineation boundaries. All of the Coeur d'Alene wells scored 6 points out of 6 points possible in the hydrologic sensitivity portion of the susceptibility analysis. Soils in the recharge zones as a whole are well drained. Poorly drained to moderately well drained soils are deemed more protective of ground water than soils which drain faster. The depth to ground water in all the wells is less than 300 feet, providing less protection from potential contaminants through adsorption and other mechanisms than a deeper soil column above the water table provides. Soils above the water table are typically composed of sand and gravel with the occasional boulder. Well logs for the Linden, Prairie and Honesuckle wells report some clay or silt mixed in the coarser soils above the water table, but no thick, continuous lens that could act as an aquitard.

Well Construction

Well construction and maintenance directly affects the ability of the wells to protect the aquifer from contaminants. Lower scores imply a well that can better protect the water. This portion of the susceptibility analysis relies on information from individual well logs, when available, and from the most recent sanitary survey of the public water system. A sanitary survey conducted February 8, 2000 found the City of Coeur d'Alene water system to be generally well run and maintained. Plugs missing from the Fourth St. and Linden St. wellheads have been replaced as recommended.

The available well logs for the Locust and Fourth St. wells are for deepening existing wells, so information is not available about the surface seal construction and depth, the depth where ground water was first encountered and soil composition above the first water bearing strata. The Honeysuckle well has the lowest construction score because it is the only well where the casing extends through low permeability soils and all the screens are all below that layer.

Table 1. Selected Characteristics of the City of Coeur d'Alene Wells

Well	Estimated Capacity (GPM)	Total Depth (ft)	Depth of Surface Seal (ft)	Depth of Casing (ft)	Static Water Level (ft)	Screen Depth (ft)	Well Construction Score
Atlas	6000	350	20	278	231	280-340	3
Fourth St.	2200	309	unknown	250	185	206-226 250-309	4
Hanley	6000	400	40	360	254	290-340	3
Linden	3100	270	56	267	161.5	216-261	3
Locust	3900	295	unknown	280	167	190-275	4
Honey-suckle	2000	300	20	291	191	218-271	2
Prairie	4011	425	20	375	252	225-235 245-260 270-280 315-325	3

Potential Contaminant Sources and Land Use

Atlas Well. The Atlas well recharge zone is 1.7 miles long and encompasses about 46 acres. Water traveling from the edge of the Rathdrum Prairie Aquifer defined by the Spokane River reaches the well in three years or less. Land use inside the recharge zone is primarily urban. Significant sources of potential contaminants in the 0-3- year time of travel zone include a nursery operation and a golf course. Interstate 90 crosses the delineation boundaries about a mile from the well. Local roads and streets were not counted in the susceptibility analysis because they carry a relatively low volume of traffic. See Figure 3 and Table A-1 in Appendix A.

Fourth St. Well. The delineation for the Fourth Street well is a narrow corridor about three miles long enclosing 84 acres. The portion of the recharge zone within half a mile of the well lies under a commercial area and Interstate 90. Most of the 11 potential contaminant sites identified inside delineation are in this area where the estimated time of travel to the well is one year or less. The rest of the delineation lies mostly under residential land. The entire Fourth St. well recharge area lies inside the 6-10 year time of travel zone delineated for the Prairie well. See Figure 4 and Table A-2. Numbers on the table correspond to numbered symbols on the delineation and potential contaminant inventory map for the Prairie and Fourth St. wells.

Hanley Well. More than 200 potential contaminant sites are located inside the 1500 acre Hanley recharge zone. The 1-year time of travel zone for the well is about half a mile long and lies under a residential neighborhood where no potential contaminant sites were documented. 39 sites were identified in the 1-3 year time of travel zone. South of Interstate 90, the recharge zone fans out to encompass most of the commercial districts in Coeur d'Alene where all but a handful of the remaining sites inventoried are located. See Figure 5 and Table A-3.

Linden Well. The entire 52-acre recharge zone for the Linden well lies inside the 3-6 year TOT for the Hanley well. The recharge zone delineated for the Linden well runs mostly beneath a residential area with few documented potential contaminant sites. See Figure 5 and Table A-4.

Locust Well. The 76-acre delineation for the Locust well also lies inside the 3-6 year TOT for the Hanley well. The Locust delineation includes areas of commercial development on and near Government Way north of Harrison and on Northwest Boulevard. 6 of the 12 potential contaminant sites identified inside the delineation boundaries are inside the 0-1 year time of travel zone for the Locust well. See Figure 5 and Table A-5.

Honeysuckle Well. The recharge zone delineated for the Honeysuckle covers 655 acres. Located on the eastern edge of the city, it bypasses most of the commercial zones. A few home based businesses are inside the 1-3 year TOT. Portions of Best Avenue and Sherman Avenue cross the 6-10 year time of travel zone. See Figure 6 and Table A-6.

Prairie Well. The Prairie well delineation encloses 1087 acres. There are 114 potential contaminant sites documented inside the delineation boundaries. Most of the sites are located along Government Way between Wilbur and Neider Avenues, and fall inside the 3-6 year time of travel zone. See Figure 4 and Table A-7.

Historic Water Quality

The city tests 30 samples monthly for total coliform bacteria. There have been no positive bacterial samples recorded at any of the wellheads. The city disinfects its water at each well to protect against microbial contamination in the distribution system.

Tables 2-1 through 2-7 summarize chemical and radiological test results for each of the 7 Coeur d'Alene wells. Detection of any amount of a synthetic or volatile organic chemical other than disinfection byproducts in a drinking water source automatically gives the source a high susceptibility rating for that class of contaminant. An exception was made for the benzene detected in the Locust St. Well in February 1996. Oil (containing benzene) from a submersible pump motor was released into the well when a power surge damaged the motor. All of the oil was bailed out. The sampling results reflect this incident rather than a generalized contamination of the ground water.

Inorganic chemical results above the maximum contaminant level (MCL) result in a high susceptibility ranking relative to inorganic contaminants. Brief descriptions of common sources of contaminants that triggered an automatic high susceptibility ranking follow the table on which they first appear. The "ND" notation in the results columns on the tables means that none were detected.

The Hanley well got an automatic high susceptibility ranking for inorganic chemicals because of mercury contamination and the presence of arsenic. Mercury spilled into the well casing when the mercury seal on a submersible pump motor failed. Efforts to recover it were not wholly successful, so the mercury remaining in the well screen tail pipe was sealed off with cement grout. Mercury was not detected in samples taken after the repair and a thorough flushing of the well. The source of the arsenic is not known, but is believed to be naturally occurring.

Table 2-1. Atlas Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	9/30/85 to 9/28/00	Nitrate	10	0.395 to 2.3	7/20/92 to 7/25/00
Arsenic	0.01	ND	9/30/85 to 9/28/00	Nickel	N/A	ND	9/30/85 to 9/28/00
Barium	2	0.04	8/20/98	Selenium	0.05	ND	9/30/85 to 9/28/00
Beryllium	0.004	ND	9/30/85 to 9/28/00	Sodium	N/A	2.3 to 3.4	9/30/85 to 7/25/00
Cadmium	0.005	ND	9/30/85 to 9/28/00	Thallium	0.002	ND	9/30/85 to 9/28/00
Chromium	0.1	ND	9/30/85 to 9/28/00	Cyanide	0.02	ND	9/30/85 to 9/28/00
Mercury	0.002	ND	9/30/85 to 9/28/00	Fluoride	4.0	ND	9/30/85 to 9/28/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)			Dates	
Calcium	--		26.0 to 40			7/20/92 to 7/25/00	
Chloride	250		1.7 to 5.0			7/20/92 to 7/25/00	
Magnesium	--		6.0 to 12.6			7/20/92 to 7/25/00	
Potassium	--		1.8 to 2.2			7/20/92 to 7/25/00	
Sulfate	--[3.4 to 17			7/20/92 to 7/25/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant			Results		Dates		
29 Regulated and 13 Unregulated Synthetic Organic Compounds			None Detected except as noted below		7/18/95 and 8/20/98		
Dacthal			1.52 µg/l		10/12/94		
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant			Results		Dates		
21 Regulated And 16 Unregulated Volatile Organic Compounds			None Detected		10/1/92 and 10/31/		
Radiological Contaminants							
Contaminant		MCL	Results	Dates			
Gross Alpha, Including Ra & U		15 pC/l	1.4.to 3.1	6/11/93 and 8/20/98			
Gross Beta Particle Activity		4 mrem/year	1.7 to 2.8	6/11/93 and 8/20/98			

Dacthal is a selective herbicide used to control broad leaf weeds in turf, home flower gardens and lawns, on golf courses and in nursery stock, fruit and vegetable crops.

Table 2-2. Fourth St. Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	7/6/88 TO 9/28/00	Nitrate	10	0.0981 to 2.0	7/6/88 to 10/17/01
Arsenic	0.01	0.002	9/28/00	Nickel	N/A	ND	7/6/88 to 9/28/00
Barium	2	ND	7/6/88 TO 9/28/00	Selenium	0.05	ND	7/6/88 to 9/28/00
Beryllium	0.004	ND	7/6/88 TO 9/28/00	Sodium	N/A	2.0 to 3.2	7/6/88 to 7/25/00
Cadmium	0.005	ND	7/6/88 TO 9/28/00	Thallium	0.002	ND	7/6/88 to 9/28/00
Chromium	0.1	ND	7/6/88 TO 9/28/00	Cyanide	0.02	ND	7/6/88 to 9/28/00
Mercury	0.002	ND	7/6/88 TO 9/28/00	Fluoride	4.0	ND	7/6/88 to 9/28/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)	Results (mg/l)				Dates	
Calcium		29 to 50				7/20/92 to 7/25/00	
Chloride	250	2.0 to 4.0				7/30/96 to 7/25/00	
Magnesium		10.6 to 20.0				7/20/92 to 7/25/00	
Potassium		1.5 to 2.4				7/20/92 to 7/25/00	
Sulfate		9.2 to 13				7/20/92 to 7/25/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant				Results		Dates	
29 Regulated and 13 Unregulated Synthetic Organic Compounds				None Detected		7/18/95 and 8/20/98	
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant				Results		Dates	
21 Regulated And 16 Unregulated Volatile Organic Compounds				None Detected except as listed below		10/1/92 and 10/31/	
Benzene		MCL 5.0 µg/l		0.73 to 0.96 µg/l		6/29/94	
Radiological Contaminants							
Contaminant			MCL	Results	Dates		
Gross Alpha, Including Ra & U			15 pC/l	0.5 to 2.0	6/11/93 to 10/17/01		
Gross Beta Particle Activity			4 mrem/year	1.9, 2.2 mrem 1.7 pC/l	6/11/93, 6/18/97 10/17/01		

Benzene is widely used in the United States to make plastics, resins, and nylon and synthetic fibers. Benzene is also used to make some types of rubbers, lubricants, dyes, detergents, drugs, and pesticides. It is also a natural part of crude oil, gasoline, and cigarette smoke.

Table 2-3. Hanley Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	7/24/91 to 10/31/00	Nitrate	10	0.608 to 3.5	7/24/91 to 10/17/01
Arsenic	0.01	0.017 to 0.034	7/24/91 to 4/27/01	Nickel	N/A	ND	7/24/91 to 10/31/00
Barium	2	0.09	7/24/91	Selenium	0.05	ND	7/24/91 to 10/31/00
Beryllium	0.004	ND	7/24/91 to 10/31/00	Sodium	N/A	3.3 to 4.1	7/24/91 to 10/31/00
Cadmium	0.005	ND	7/24/91 to 10/31/00	Thallium	0.002	ND	7/24/91 to 10/31/00
Chromium	0.1	ND	7/24/91 to 10/31/00	Cyanide	0.02	ND	7/24/91 to 10/31/00
Mercury	0.002	0.0017 to 0.0044	7/30/93	Fluoride	4.0	ND	7/24/91 to 10/31/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)			Dates	
Calcium			26.0 to 42.0			7/24/91 to 10/31/00	
Chloride	250		2.7 to 5.0			7/20/92 to 10/31/00	
Iron	0.30		0.04			7/24/91	
Magnesium			9.0 to 20.0			7/24/91 to 10/31/00	
Potassium			2.0 to 3.0			7/20/92 to 10/31/00	
Sulfate			6.0 to 15.0			7/24/91 to 10/31/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant				Results		Dates	
29 Regulated and 13 Unregulated Synthetic Organic Compounds				None Detected		7/18/95 to 11/27/00	
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant				Results		Dates	
21 Regulated And 16 Unregulated Volatile Organic Compounds				None Detected except as listed below		9/01/92 and 2/16/01	
Dichloromethane		MCL 5.0 µg/l		1.2 µg/l		4/27/01	
Trichloroethylene		MCL 5.0 µg/l		0.38 to 7.5 µg/l		10/27/92 to 11/15/01	
Radiological Contaminants							
Contaminant			MCL	Results		Dates	
Gross Alpha, Including Ra & U			15 pCi	2.1 to 4.4 pCi		3/24/93 to 10/17/01	
Gross Beta Particle Activity			4 mrem/year	2.4 to 3.2 mrem 4.1 pCi		3/24/93 to 6/18/97 10/17/01	

The arsenic level in the water from the Hanley Well will exceed the MCL when the new standard is adopted in 2006. Arsenic is a naturally occurring element widely distributed in the earth's crust. It can enter ground water through the erosion of natural deposits, in runoff from orchards, wood preservation plants, glass and electronics production wastes.

Dichloromethane (DCM) is a colorless organic liquid used primarily as a paint remover. Other uses include solvent and cleaning agent in a variety of industries; a fumigant for strawberries and grains; and to extract substances from foodstuffs.

As noted above, the source of the Mercury in the Hanley well was a broken submersible pump seal. The unrecovered mercury was sealed in place with cement grout.

Trichloroethylene (TCE) is a nonflammable, colorless liquid used mainly as a solvent to remove grease from metal parts. It is also an ingredient in adhesives, paint removers, and spot removers.

Table 2-4. Linden St. Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	7/6/88 to 9/28/00	Nitrate	10	0.117 to 1.5	7/6/88 to 10/18/01
Arsenic	0.01	0.002	10/18/01	Nickel	N/A	ND	7/6/88 to 9/28/00
Barium	2	0.02	8/20/98	Selenium	0.05	ND	7/6/88 to 9/28/00
Beryllium	0.004	ND	7/6/88 to 9/28/00	Sodium	N/A	1.8 to 2.7	7/6/88 to 10/18/01
Cadmium	0.005	ND	7/6/88 to 9/28/00	Thallium	0.002	ND	7/6/88 to 9/28/00
Chromium	0.1	ND	7/6/88 to 9/28/00	Cyanide	0.02	ND	7/6/88 to 9/28/00
Mercury	0.002	ND	7/6/88 to 9/28/00	Fluoride	4.0	ND	7/6/88 to 9/28/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)		Dates		
Calcium			21.0 to 34.o		7/20/92 to 7/25/00		
Chloride	250		0.8 to 3.0		7/20/92 to 7/25/00		
Magnesium			4.6 to 6.6		7/20/92 to 7/25/00		
Potassium			1.1 to 1.6		7/20/92 to 7/25/00		
Sulfate			5.0 to 14.0		7/20/92 to 7/25/00		
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant			Results		Dates		
29 Regulated and 13 Unregulated Synthetic Organic Compounds			None Detected		7/18/95 to 11/27/00		
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant			Results		Dates		
21 Regulated And 16 Unregulated Volatile Organic Compounds			None Detected		6/27/88 , 4/30/96		
Radiological Contaminants							
Contaminant		MCL	Results		Dates		
Gross Alpha, Including Ra & U		15 pC/l	0.7, 0.2 pC/l		6/11/93, 6/18/97		
Gross Beta Particle Activity		4 mrem/year	1.0, 2.0 mrem 1.2 pC/l		6/18/97, 6/11/93 10/18/01		

Table 2-5. Locust St Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	9/30/85 to 10/31/00	Nitrate	10	0.419 to 2.0	9/30/85 to 10/18/01
Arsenic	0.01	ND	7/24/91 to 4/27/01	Nickel	N/A	ND	9/30/85 to 10/31/00
Barium	2	0.02	8/20/98	Selenium	0.05	ND	9/30/85 to 10/31/00
Beryllium	0.004	ND	9/30/85 to 10/31/00	Sodium	N/A	2.1 to 2.9	9/30/85 to 10/31/00
Cadmium	0.005	ND	9/30/85 to 10/31/00	Thallium	0.002	ND	9/30/85 to 10/31/00
Chromium	0.1	ND	9/30/85 to 10/31/00	Cyanide	0.02	ND	9/30/85 to 10/31/00
Mercury	0.002	0.0005 to 0.0012	10/30/91 to 3/21/96	Fluoride	4.0	ND	9/30/85 to 10/31/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)			Dates	
Calcium			26 to 32			7/21/92 to 10/31/00	
Chloride	250		1.0 to 4.0			7/21/92 to 10/31/00	
Magnesium			6.0 to 9.6			7/21/92 to 10/31/00	
Potassium			2.0 to 3.0			7/20/92 to 10/31/00	
Sulfate			6.0 to 15.0			7/24/91 to 10/31/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant				Results		Dates	
29 Regulated and 13 Unregulated Synthetic Organic Compounds				None Detected		7/18/95 and 11/27/00	
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant				Results		Dates	
21 Regulated And 16 Unregulated Volatile Organic Compounds				None Detected except as listed below		10/1/92 and 10/31/	
Benzene		5.0 µg/l		124µg/l		2/23/96	
Bromomethane		0.50 µg/l		7.4 µg/l		2/23/96	
Chloromethane		0.50 µg/l		13.2 µg/l		2/23/96	
Toluene		1000 µg/l		6.14 µg/l		2/23/96	
Radiological Contaminants							
Contaminant			MCL	Results	Dates		
Gross Alpha, Including Ra & U			15 pC/l	0.2 pC/l	6/11/93, 6/18/97		
Gross Beta Particle Activity			4 mrem/year	1.2 pC/l 0.8, 1.8 mrem	10/18/01 6/11/93, 6/18/97		

Bromomethane is used to kill a variety of pests including rats, insects, and fungi. It is also used to make other chemicals or as a solvent to extract oil from of nuts, seeds, and wool.

Chloromethane, also known as methyl chloride is an extremely flammable gas formerly used as a refrigerant. It was also used as a foam-blowing agent and as a herbicide or fumigant, propellant and solvent. Today most commercially produced chloromethane is used to make other substances. It is found as a pollutant in municipal waste streams from treatment plants and industrial waste streams as a result of formation as a by-product or incomplete removal. It is also given off when materials like grass, wood, charcoal, and plastics are burned. Other sources of exposure are cigarette smoke, polystyrene insulation, aerosol propellants, and chlorinated swimming pools

Toluene is used in making paints, paint thinners, fingernail polish, lacquers, adhesives, and rubber and in some printing and leather tanning processes.

Table 2-6. Honeysuckle Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	10/8/96 to 10/31/00	Nitrate	10	0.5 to 1.64	10/8/96 to 10/17/01
Arsenic	0.01	0.003	9/28/00	Nickel	N/A	ND	10/8/96 to 10/31/00
Barium	2	ND	10/8/96 to 10/31/00	Selenium	0.05	ND	10/8/96 to 10/31/00
Beryllium	0.004	ND	10/8/96 to 10/31/00	Sodium	N/A	2.5 to 3.2	10/8/96 to 10/31/00
Cadmium	0.005	ND	10/8/96 to 10/31/00	Thallium	0.002	ND	10/8/96 to 10/31/00
Chromium	0.1	ND	10/8/96 to 10/31/00	Cyanide	0.02	ND	10/8/96 to 10/31/00
Mercury	0.002	ND	10/8/96 to 10/31/00	Fluoride	4.0	ND	10/8/96 to 10/31/00
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)			Dates	
Calcium			26.0 to 35.0			1/27/98 to 10/31/00	
Chloride	250		2.0 to 4.0			1/27/98 to 10/31/00	
Magnesium			11 to 14.6			1/27/98 to 10/31/00	
Potassium			1.6 to 2.2			1/27/98 to 10/31/00	
Sulfate			10.0 to 12.0			1/27/98 to 10/31/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant				Results		Dates	
29 Regulated and 13 Unregulated Synthetic Organic Compounds				None Detected		10/8/96	
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant				Results		Dates	
21 Regulated And 16 Unregulated Volatile Organic Compounds				None Detected except as listed below		9/3/97	
Chloromethane		MCL 0.50 µg/l		1.0 µg/l		9/3/97	
Radiological Contaminants							
Contaminant			MCL	Results	Dates		
Gross Alpha, Including Ra & U			15 pC/l	1.1 pC/l	10/8/96		
Gross Beta Particle Activity			4 mrem/year	2.3 mrem 1.3 pC/l	10/8/96 10/17/01		

Table 2-7. Prairie Well Chemical Test Results

Primary IOC Contaminants (Mandatory Tests)							
Contaminant	MCL (mg/l)	Results (mg/l)	Dates	Contaminant	MCL (mg/l)	Results (mg/l)	Dates
Antimony	0.006	ND	7/25/00 to 9/28/00	Nitrate	10	1.2 to 2.0	8/12/99 to 10/17/01
Arsenic	0.01	0.006	9/28/00	Nickel	N/A	ND	7/25/00 to 9/28/00
Barium	2	0.04	8/12/99	Selenium	0.05	ND	7/25/00 to 9/28/00
Beryllium	0.004	ND	7/25/00 to 9/28/00	Sodium	N/A	5.39 to 6.8	8/12/99 to 7/25/00
Cadmium	0.005	ND	7/25/00 to 9/28/00	Thallium	0.002	ND	7/25/00 to 9/28/00
Chromium	0.1	ND	7/25/00 to 9/28/00	Cyanide	0.02	ND	7/25/00 to 9/28/00
Mercury	0.002	ND	7/25/00 to 9/28/00	Fluoride	4.0	0.2	8/12/99
Secondary and Other IOC Contaminants (Optional Tests)							
Contaminant	Recommended Maximum (mg/l)		Results (mg/l)			Dates	
Calcium			38.0			7/25/00	
Chloride	250		13.0			7/25/00	
Magnesium			20.7			7/25/00	
Potassium			2.1			7/25/00	
Sulfate			11.6			7/25/00	
Regulated and Unregulated Synthetic Organic Chemicals							
Contaminant				Results		Dates	
29 Regulated and 13 Unregulated Synthetic Organic Compounds				None Detected		8/12/99	
Regulated and Unregulated Volatile Organic Chemicals							
Contaminant				Results		Dates	
21 Regulated And 16 Unregulated Volatile Organic Compounds				None Detected		8/12/99	
Radiological Contaminants							
Contaminant			MCL	Results	Dates		
Gross Alpha, Including Ra & U			15 pC/l	2.7 pC/l	8/12/99		
Gross Beta Particle Activity			4 mrem/year	2.9 mrem	8/12/99		

Final Susceptibility Ranking

Table 3 summarizes the susceptibility analyses for the City of Coeur d'Alene wells. The hydrologic sensitivity scores for all the wells is the same and system construction scores vary by 2 points at most. The Linden St. well is moderately susceptible to all classes of regulated contaminants. All of the wells ranked in the moderate susceptibility category relative to microbial contamination.

Detection of volatile organic chemicals resulted in automatic high VOC susceptibility rankings for the Fourth St., Hanley, and Honeysuckle wells. The Hanley well ranked highly susceptible to inorganic contamination because of the arsenic concentrations in the tested well water and the presence of sealed off mercury in the well. The Atlas well got a high SOC vulnerability ranking because of the detection of the herbicide Dacthal. Other high vulnerabilities are due to the combination of natural risk factors, system construction and the location of potential contaminant sites in the recharge zones for the wells. It is important to note that potential contaminant sites in the 0-3 year time of travel zones weigh more heavily in the risk assessment than sites further from the wellhead.

Table 3. Summary of City of Coeur d'Alene Susceptibility Evaluation

Cumulative Susceptibility Scores						
	System Construction	Hydrologic Sensitivity	Contaminant Inventory			
			IOC	VOC	SOC	Microbial
Atlas	3	6	10	10	*High	4
Fourth St	4	6	14	*High	14	6
Hanley	3	6	*High	*High	19	6
Linden	3	6	5	11	11	2
Locust	4	6	14	14	14	2
Honeysuckle	2	6	7	*High	7	4
Prairie	3	6	19	19	19	4
Final Susceptibility Score/ Ranking						
	IOC	VOC	SOC	Microbial		
Atlas	11/Moderate	10/Moderate	*High	11/Moderate		
Fourth St.	13/High	*High	13/High	12/Moderate		
Hanley	*High	*High	13/High	11/Moderate		
Linden	10/Moderate	11/Moderate	11/Moderate	10/Moderate		
Locust	13/High	13/High	13/High	11/Moderate		
Honeysuckle	9/Moderate	*High	9/Moderate	10/Moderate		
Prairie	13/High	13/High	13/High	11/Moderate		

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

*High indicates automatic high score due to water sampling history

Hydrologic sensitivity, land use with associated potential contaminant sources, and well construction integrity are considered to have equal importance in the susceptibility rating. However, the susceptibility analysis can allocate up to 30 points for potential contaminant/land use factors compared with a maximum of 6 points for hydrologic factors and 6 points for well construction. For this reason the potential contaminant/land use scores are normalized before tallying the final susceptibility scores. The final susceptibility scores are determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.35)

The final ranking categories are as follows:

- 0 - 5 Low Susceptibility
- 6 - 12 Moderate Susceptibility
- > 13 High Susceptibility

Section 4. Options for Source Water Protection

The susceptibility assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what the susceptibility ranking a source receives, protection is always important. Whether the source is currently located in a “pristine” area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

An effective drinking water protection program is tailored to the local source water protection area. The state and local health districts have instituted enhanced protection of the ground water in the Rathdrum Prairie Aquifer because of its high use and uniquely pristine water quality. The protections are generally aquifer wide and are not aimed at zones of contribution to a specific well or water system. *The Spokane Valley-Rathdrum Prairie Atlas*, sent to water systems on the prairie when they were invited to perform an enhanced contaminant inventory, describes some of the regional protection measures.

The 186 public water systems in Idaho that draw water from the Rathdrum Prairie Aquifer should consider forming a regional group to represent their interests before state, county and municipal governing bodies when regulatory tools like zoning overlays, or enactment of building codes are the most appropriate ground water protection measures. These types of measures could be used to protect the capture zones of a specific system or group of wells that could be put at risk from local land use changes. Drinking water protection zoning should consider proximity to the wellheads, and both the types and volume of potential contaminants associated with activities allowed near the wells.

In its own service area, the City of Coeur d'Alene should continue the excellent maintenance and operations programs noted during sanitary inspections. Partnerships with state and local agencies and industry groups should also be established. Workshops targeted at specific types of businesses, and distribution of industry specific Best Management Practices brochures are measures the city might want to consider. Proper use, storage and disposal of volatile organic chemicals should be a high priority since they are the most common contaminants affecting Coeur d'Alene.

Due to the time involved with the movement of ground water, wellhead protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term.

Assistance

Public water suppliers and users may call the following IDEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the IDEQ office for preliminary review and comments.

Coeur d'Alene Regional DEQ Office (208) 769-1422

State IDEQ Office (208) 373-0502

Website: <http://www.deqstate.id.us/>

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Appendix A

City of Coeur d'Alene Potential Contaminant Inventories

Table A-1. Atlas Well. City of Coeur d'Alene Potential Contaminant Inventory

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS ¹
1	0-3 YR	Tree Nursery	USGS Maps	IOC, SOC
2	0-3 YR	Golf Course	USGS Maps	IOC, SOC
3	0-3 YR	Interstate 90	USGS Maps	IOC, SOC, VOC, Microbial

Table A-2. Fourth St. Well City of Coeur d'Alene Potential Contaminant Inventory

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
75	Fourth 0-3 YR Prairie 6-10 YR	Building Contractors	Business Mailing List	IOC, VOC, SOC
76	Fourth 0-3 YR Prairie 6-10 YR	General Contractors	Business Mailing List	IOC, VOC, SOC
78	Fourth 0-3 YR Prairie 6-10 YR	Open Fuel Storage Tank	UST Database	SOC, VOC
84	Fourth 0-3 YR Prairie 6-10 YR	Automobile Parts & Supplies-Retail	Business Mailing List	SOC, IOC, VOC
85	Fourth 0-3 YR Prairie 6-10 YR	Taxidermists	Business Mailing List	IOC, SOC, Microbial
86	Fourth 0-3 YR Prairie 6-10 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
87	Fourth 0-3 YR Prairie 6-10 YR	Wheel Alignment-Frame & Axle Service	Business Mailing List	IOC, SOC, VOC
88	Fourth 0-3 YR Prairie 6-10 YR	Sign Manufacturers	Business Mailing List	IOC, VOC
99	Fourth 0-3 YR Prairie 6-10 YR	Automobile Wrecking (Wholesale)	Business Mailing List	IOC, SOC, VOC
109	Fourth 0-3 YR Prairie 6-10 YR	Veterinarian	Business Mailing List	IOC, SOC, MICROBIAL
	Fourth 0-3 YR Prairie 6-10 YR	Interstate 90	County Map	IOC, SOC, MICROBIAL

Table A-3. Hanley Well. City of Coeur d'Alene Potential Contaminant Inventory

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
Dalton & Pioneer	Hanley 0-3 YR	Asphalt Plant	CERCLA Database	IOC, SOC, VOC
W 625 Dalton Ave	Hanley 0-3 YR	Contractor	UST Database	IOC, SOC, VOC
W Dalton Ave	Hanley 0-3 YR	Auto Wash	Enhanced Inventory	IOC, SOC, VOC
660 W Dalton Ave	Hanley 0-3 YR	Electric Equipment & Supplies	Business Mailing List	IOC, VOC
600 W Dalton Ave	Hanley 0-3 YR	Plumbing Fixtures & Supplies	Business Mailing List	IOC, SOC, VOC
520 W Dalton	Hanley 0-3 YR	Soft Drink Bottling Plant	SARA Database	IOC, VOC
W 650 Clayton Ave	Hanley 0-3 YR	Above Ground Fuel Storage	AST Database	SOC, VOC
W 650 Clayton Ave	Hanley 0-3 YR	Petroleum Distributor	UST Database	SOC, VOC
454 W Clayton Ave	Hanley 0-3 YR	Automobile Radiator-Repairing	Business Mailing List	SOC, VOC
460 W Clayton Ave	Hanley 0-3 YR	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
5083 Building Center Dr	Hanley 0-3 YR	Dry Wall & Insulation	Enhanced Inventory	IOC, VOC
845 Kathleen Ave	Hanley 0-3 YR	Concrete And Asphalt Plant	CERCLA Database	IOC, SOC, VOC
US 95 & Kathleen	Hanley 0-3 YR	Closed Fuel Storage	UST Database	IOC, SOC, VOC
Hwy 95 & Kathleen	Hanley 0-3 YR	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
470 Kathleen	Hanley 0-3 YR	Auto Dealership	UST Database	IOC, SOC, VOC
280 W Kathleen	Hanley 0-3 YR	Auto Body Shop	Enhanced Inventory	IOC, SOC, VOC
250 W Kathleen Ave	Hanley 0-3 YR	Electric Equipment & Supplies	Business Mailing List	IOC, VOC
3655 N Cedarbloom St	Hanley 0-3 YR	Storage	Business Mailing List	IOC, SOC, VOC
3113 N Government Way	Hanley 0-3 YR	Recreational Vehicle Parks	Business Mailing List	Microbial, IOC, SOC, VOC
3112 N Government Way	Hanley 0-3 YR	Tire-Dealers-Retail	Business Mailing List	SOC, VOC
3110 N Government Way	Hanley 0-3 YR	Mufflers & Exhaust Systems-i	Business Mailing List	IOC, SOC, VOC
3025 N Government Way	Hanley 0-3 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
3024 N Government Way	Hanley 0-3 YR	Automobile Customizing	Business Mailing List	IOC, SOC, VOC
3020 N Government Way	Hanley 0-3 YR	Tire-Dealers-Retail	Business Mailing List	IOC, SOC, VOC
2955 N Government Way	Hanley 0-3 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
2945 N Government Way	Hanley 0-3 YR	Metal Plaiting And Polishing	CERCLA Database	IOC, SOC, VOC
2945 N Government Way	Hanley 0-3 YR	Metal Plaiting And Polishing	RICRIS Database	IOC, SOC, VOC
2945 N Government Way	Hanley 0-3 YR	Metal Plaiting And Polishing	SARA Database	IOC, SOC, VOC
2929 N Government Way	Hanley 0-3 YR	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
210 W Anton Ave	Hanley 0-3 YR	Automobile Radiator-Repairing	Business Mailing List	SOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
106 W Anton Ave	Hanley 0-3 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
2900 Government Wy	Hanley 0-3 YR	Auto Dealership	UST Database	IOC, SOC, VOC
2923 N Government Way	Hanley 0-3 YR	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
2920 N Government Way	Hanley 0-3 YR	Motorcycles & Motor Scooters-Repair	Business Mailing List	IOC, SOC, VOC
2920 N Government Way	Hanley 0-3 YR	Race Tracks	Business Mailing List	IOC, SOC, VOC
2818 N Government Way	Hanley 0-3 YR	Tire-Dealers-Retail	Business Mailing List	IOC, SOC, VOC
106 W Haycraft	Hanley 0-3 YR	Drycleaner	Enhanced Inventory	IOC, VOC
2801 N Government Way	Hanley 0-3 YR	Paint Store	CERCLA Database	VOC
2801 N Government Way	Hanley 0-3 YR	Paint Store	RICRIS Database	VOC
119 W Appleway Ave	Hanley 3-6	Printers	Business Mailing List	IOC, VOC
119 W Appleway Ave	Hanley 3-6	Photo Finishing-Retail	Business Mailing List	IOC, VOC
213 W Appleway Ave	Hanley 0-3 YR	Building Contractors	Business Mailing List	SOC, VOC
201 W Appleway	Hanley 3-6	Gas Station	Leaking Underground Storage Tank Database	SOC, VOC
201 W Appleway	Hanley 3-6	Gas Station	UST Database	SOC, VOC
204 W Appleway Ave	Hanley 3-6	Automobile Parts & Supplies	Business Mailing List	IOC, SOC, VOC
200 W Appleway Ave	Hanley 3-6	Tire-Dealers-Retail	Business Mailing List	IOC, SOC, VOC
104 E Appleway Ave	Hanley 3-6	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
104 E Appleway Ave	Hanley 3-6	Former Boat Dealership	Business Mailing List	IOC, SOC, VOC
110 E Appleway Ave	Hanley 3-6	Tire-Dealers-Retail	Business Mailing List	IOC, SOC, VOC
116 E Appleway Ave	Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
2433 N Government Way # C	Hanley 3-6	Ceramic Tile-Contractors	Business Mailing List	IOC, SOC, VOC
2425 N Government Way	Hanley 3-6	Animal Hospital	Business Mailing List	Microbial, IOC, SOC
2420 N Government Way	Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
2415 N Government Way	Hanley 3-6	Printers	Business Mailing List	IOC, VOC
2411 N Government Way	Hanley 3-6	Ambulance Service	Business Mailing List	Microbial, IOC, SOC, VOC
2402 N Government Way	Hanley 3-6	Bicycles Shop	Business Mailing List	IOC, SOC, VOC
2320 Government Way	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
2115 Government Way	Hanley 3-6	Utility Company	SARA Database	SOC, VOC
2115 Government Way	Hanley 3-6	Utility company	UST Database	SOC, VOC
2111 N 3rd	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
101 W Ironwood Dr	Hanley 3-6	Stone-Crushed	Business Mailing List	IOC
101 W Ironwood Dr # 135	Hanley 3-6	Printers	Business Mailing List	IOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
101 W Ironwood Dr	Hanley 3-6	X Ray Developer	Enhanced Inventory	IOC, VOC
1932 Government Way	Hanley 3-6	Fuel Storage Site	AST Database	SOC, VOC
1932 Government Way	Hanley 3-6	Gas Station	UST Database	SOC, VOC
1932 Government Way	Hanley 3-6	Gas Station	SARA Database	SOC, VOC
1932 Government Way	Hanley 3-6	Gas Station	SARA Database	SOC, VOC
1932 Government Way	Hanley 3-6	Petroleum Distributor	UST Database	SOC, VOC
1932 Government Way	Hanley 3-6	Petroleum Distributor	SARA Database	SOC, VOC
1923 N 4th St	Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
1923 N 4th St # 105	Hanley 3-6	Blueprinting	Business Mailing List	IOC, VOC
1918 N 4th St	Hanley 3-6	Pest Control	Business Mailing List	IOC, SOC, VOC
1917 Government Way	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
1917 Government Way	Hanley 3-6	Fuel Storage Site	RICRIS Database	SOC, VOC
1917 Government Way	Hanley 3-6	Fuel Storage Site	UST Database	SOC, VOC
1914 N 4th St	Hanley 3-6	Cabinet Makers	Business Mailing List	IOC, SOC, VOC
1902 N 4th Street	Hanley 3-6	Car Dealership	RICRIS Database	IOC, SOC, VOC
305 Locust Ave	Hanley 3-6	Drycleaner	RICRIS Database	IOC, VOC
307 E Locust Ave	Hanley 3-6	Bicycles Repair Shop	Business Mailing List	IOC, SOC, VOC
128 E Locust Ave	Hanley 3-6	Photographers	Business Mailing List	IOC, VOC
128 E Locust Ave	Hanley 3-6	General Contractors	Business Mailing List	IOC, SOC, VOC
1901 N 4th St	Hanley 3-6	Motorcycles & Motor Scooter Repair	Business Mailing List	IOC, SOC, VOC
1830 N 3rd St	Hanley 3-6	Automobile Lubrication Service	Business Mailing List	SOC, VOC
1819 N 4th St	Hanley 3-6	Hardware Store	Business Mailing List	IOC, SOC, VOC
1839 N Government Way	Hanley 3-6	Publishers	Business Mailing List	IOC, VOC
1823 N 4th	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
1823 N 4th	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
1823 N 4th	Hanley 3-6	Former Fuel Storage Site	RICRIS Database	SOC, VOC
103 Poplar Ave	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
Locust St	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
129 E Poplar Ave	Hanley 3-6	Dental Laboratories	Business Mailing List	IOC, VOC
102 E Poplar Ave	Hanley 3-6	Service Station Equipment	Business Mailing List	IOC, SOC, VOC
104 E Poplar Ave	Locust 0-3 YR, Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
108 E Poplar Ave	Locust 0-3 YR, Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
133 E Poplar	Hanley 3-6	Ambulance GARAGE	Enhanced Inventory	SOC, VOC
1710 N 4th St	Hanley 3-6	Auto Dealership	UST Database	IOC, SOC, VOC
1710 N 4th St	Hanley 3-6	Auto Dealership	RICRIS Database	IOC, SOC, VOC
1710 N 2nd St	Hanley 3-6	Painters	Business Mailing List	VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
105 E Spruce Ave	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
107 E Spruce Ave	Locust 0-3 YR, Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
137 E Spruce Ave	Hanley 3-6	Bus Lines	Business Mailing List	IOC, SOC, VOC
1704 N Government Way	Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
1704 N Government Way	Hanley 3-6	Truck Renting & Leasing	Business Mailing List	IOC, SOC, VOC
140 E Spruce Ave	Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
140 E Spruce Ave	Hanley 3-6	Signs (Manufacturers)	Business Mailing List	IOC, SOC, VOC
1701 N 4th	Hanley 3-6	Auto Dealership	UST Database	IOC, SOC, VOC
1701 N 4th	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
1605 N 3rd St	Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
1523 N 2nd St	Hanley 3-6	Auto And Boat Repair	Business Mailing List	IOC, SOC, VOC
1516 N 6th St	Hanley 3-6	General Contractors	Business Mailing List	IOC, SOC, VOC
1515 N 6th St	Hanley 3-6	Roofing Contractors	Business Mailing List	IOC, SOC, VOC
1512 N Government Way	Locust 0-3 YR, Hanley 3-6	Automobile Detail & Clean-Up	Business Mailing List	IOC, SOC, VOC
1503 N 4th St	Hanley 3-6	Auto Body Shop	RICRIS Database	IOC, SOC, VOC
1508 N 4th	Hanley 3-6	Auto Dealership	UST Database	IOC, SOC, VOC
1508 N 4th	Hanley 3-6	Auto Dealership	Leaking Underground Storage Tank Database	IOC, SOC, VOC
1508 N 4th St	Hanley 3-6	Auto Dealership	RICRIS Database	IOC, SOC, VOC
1422 N Government Way	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
1422 Government Way	Locust 0-3 YR, Hanley 3-6	Utility Company	UST Database	SOC, VOC
1422 Government Way	Locust 0-3 YR, Hanley 3-6	Utility Company	Leaking Underground Storage Tank Database	SOC, VOC
1411 N 4th St	Hanley 3-6	Automobile Parts & Supplies	Business Mailing List	IOC, SOC, VOC
717 E Walnut Ave	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
302 Spokane Ave	Hanley 3-6	Drycleaner	RICRIS Database	IOC, VOC
1217 N 4th St	Hanley 3-6	Hardware Store	Business Mailing List	IOC, SOC, VOC
1201 Government Way	Locust 0-3 YR, Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
115 E Harrison Ave	Hanley 3-6	Auto Dealership	UST Database	IOC, SOC, VOC
108 Harrison	Hanley 3-6	Petroleum Distributor	Leaking Underground Storage Tank Database	SOC, VOC
108 Harrison	Hanley 3-6	Petroleum Distributor	UST Database	SOC, VOC
108 Harrison	Hanley 3-6	Petroleum Distributor	SARA Database	SOC, VOC
300 E Harrison Ave	Hanley 3-6	Printers	Business Mailing List	IOC, VOC
109 E Harrison	Hanley 3-6	Gas Station	SARA Database	SOC, VOC
109 East Harrison Ave.	Hanley 3-6	Petroleum Distributor	AST Database	SOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
625 E Harrison	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
1148 N 4th St	Hanley 3-6	Auto Dealership	UST Database	IOC, SOC, VOC
1141 N 3rd St	Hanley 3-6	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
1145 N 4th	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
1145 North 4th St	Hanley 3-6	Former Fuel Storage Site	RICRIS Database	SOC, VOC
1136 North 4th	Hanley 3-6	Drycleaner	RICRIS Database	IOC, VOC
1133 N 4th St	Hanley 3-6	Funeral Home	Business Mailing List	IOC, SOC
103 Summit Ave # 4	Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
103 Summit Ave	Hanley 3-6	General Contractors	Business Mailing List	IOC, SOC, VOC
1114 N 3rd St	Hanley 3-6	Auto Detail & Clean-Up Service	Business Mailing List	IOC, SOC, VOC
1111 N 7th St	Hanley 3-6	Engravers	Business Mailing List	IOC, VOC
1053 C St	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
1053 C St	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
1017 N 7th St	Hanley 3-6	Janitor Service	Business Mailing List	IOC, VOC
1034 N 3rd St	Hanley 3-6	X-Ray Developer	Enhanced Inventory	IOC, VOC
1034 N 3rd St	Hanley 3-6	Storage	Business Mailing List	Microbial, IOC, SOC, VOC
1000 Northwest Blvd # 100	Hanley 3-6	Mining Company	Business Mailing List	IOC, SOC, VOC
610 W Hubbard St	Hanley 3-6	Printers	Business Mailing List	IOC, VOC
610 W Hubbard Ave	Hanley 3-6	Printers	RICRIS Database	IOC, VOC
1008 N 4th St	Hanley 3-6	Gas Station	UST Database	SOC, VOC
1008 N 4th St	Hanley 3-6	Gas Station	SARA Database	SOC, VOC
1006 N 4th St	Hanley 3-6	Screen Printing	Business Mailing List	IOC, VOC
916 N 3rd St	Hanley 3-6	Auto Detail & Clean-Up Service	Enhanced Inventory	IOC, SOC, VOC
904 N 3rd St	Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
850 N 4th St	Hanley 3-6	Campers & Truck Canopy Dealers	Business Mailing List	IOC, SOC, VOC
845 N 4th St	Hanley 3-6	Automobile Dealers-New Cars	Business Mailing List	IOC, SOC, VOC
408 Montana	Hanley 3-6	X-Ray Developer	Enhanced Inventory	IOC, VOC
826 N 4th St	Hanley 3-6	Drycleaner	RICRIS Database	IOC, VOC
902 Lincoln Way	Hanley 3-6	Brewers	Business Mailing List	IOC, VOC, Microbial
800 NORTHWEST Blvd	Hanley 3-6	Car Rental	Enhanced Inventory	IOC, SOC, VOC
7th & Montana	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
7th & Montana	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
832 N 5th St	Hanley 3-6	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
804 N 4th St	Hanley 3-6	Screen Printing	Business Mailing List	IOC, VOC
8th & Garden	Hanley 3-6	Former Sand & Gravel Pit & Plant	Mine Database	IOC, SOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
911 E St Maries Ave	Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
744 N 4th St	Hanley 3-6	Funeral Home	Business Mailing List	IOC, SOC
705 Lincoln Way	Hanley 3-6	Moving Company	UST Database	Microbial, IOC, SOC, VOC
703 Lincoln Way	Hanley 3-6	Campground	Business Mailing List	Microbial, IOC, SOC, VOC
817 N 11th St	Hanley 3-6	Roofing Contractors	Business Mailing List	IOC, SOC, VOC
411 E Reid Ave	Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
730 N 4th St	Hanley 3-6	Screen Printing	Business Mailing List	IOC, VOC
1208 E Pennsylvania Ave	Hanley 3-6	Marine Wholesaler	Business Mailing List	IOC, SOC, VOC
715 N 4th St	Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
608 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Newspapers (Publishers)	Business Mailing List	IOC, VOC
320 Foster	Hanley 3-6	Fire Department	UST Database	SOC, VOC
702 N 9th St	Hanley 3-6	Photographers	Business Mailing List	IOC, VOC
602 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Screen Printing	Business Mailing List	IOC, VOC
508 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Gas Station	UST Database	SOC, VOC
508 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Gas Station	SARA Database	SOC, VOC
5th & Montana	Hanley 3-6	Former Sand & Gravel Pit	Mine Database	IOC, SOC, VOC
518 4th St	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
302 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Rental	UST Database	IOC, SOC, VOC
302 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Rental	Leaking Underground Storage Tank Database	IOC, SOC, VOC
818 Garden Ave	Hanley 3-6	Window Cleaning	Business Mailing List	IOC, VOC
417 Military Dr	Hanley 3-6	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
501 Government Way	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
501 Government Way	Hanley 3-6	Printing	Enhanced Inventory	IOC, VOC
505 N 4th St	Hanley 3-6	Mower Sharpening & Repair	Business Mailing List	IOC, VOC, SOC
417 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Automobile Parts Store	Business Mailing List	IOC, SOC, VOC
415 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	RICRIS Database	IOC, SOC, VOC
418 N 2nd St	Hanley 3-6	Machine Shop	Business Mailing List	IOC, SOC, VOC
420 N 4th St	Hanley 3-6	Automobile Parts & Supplies	Business Mailing List	IOC, SOC, VOC
415 N 3rd St	Hanley 3-6	Auto Transmission Shop	UST Database	IOC, SOC, VOC
623 Wallace	Hanley 3-6	Utility Company	UST Database	SOC, VOC
408 N 3rd St	Hanley 3-6	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
824 E Wallace Ave	Hanley 3-6	Pest Control	Business Mailing List	IOC, SOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
411 N 4th St	Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
314 N 3rd St	Hanley 3-6	Printers	Business Mailing List	IOC, VOC
405 E Indiana Ave	Hanley 3-6	Automobile-Antique & Classic	Business Mailing List	IOC, SOC, VOC
Mullan & Northwest Blvd	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
401 N 4th St	Hanley 3-6	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
400 N 4th St	Hanley 3-6	Automobile-Antique & Classic	Business Mailing List	IOC, SOC, VOC
312 N 4th St	Hanley 3-6	Wood Products Manufacturer	Business Mailing List	VOC, SOC
301 1st St	Linden 0-3 YR Hanley 3-6	Swimming Pool	Enhanced Inventory	IOC, VOC
117 Coeur d'Alene Ave	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
315 E Coeur d'Alene Ave	Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
214 N 3rd St	Hanley 3-6	Automobile Parts & Supplies	RICRIS Database	IOC, SOC, VOC
421 E Coeur d'Alene Ave	Hanley 3-6	Building Contractor	Business Mailing List	IOC, SOC, VOC
308 Coeur d'Alene Ave	Hanley 3-6	Auto Repair Shop	RICRIS Database	IOC, SOC, VOC
308 Coeur d'Alene Ave	Hanley 3-6	Transmission Shop	SARA Database	IOC, SOC, VOC
312 Coeur d'Alene Ave	Hanley 3-6	City Shop	RICRIS Database	IOC, SOC, VOC
520 E Coeur d'Alene Ave	Hanley 3-6	Typesetting	Business Mailing List	IOC, VOC
3rd & Coeur d'Alene Ave	Hanley 3-6	Former Dry Cleaner & Laundry Site	CERCLA Database	IOC, VOC
3rd & Coeur d'Alene Ave	Hanley 3-6	Former Auto Repair	CERCLA Database	IOC, SOC, VOC
206 N 3rd St	Hanley 3-6	Bicycles-Dealers	Business Mailing List	IOC, SOC, VOC
314 N 3rd St	Hanley 3-6	Printing	Enhanced Inventory	IOC, VOC
204 N 2nd St	Hanley 3-6	Brewers	Business Mailing List	IOC, VOC, Microbial
115 N First Ave	Hanley 3-6	City Shop	RICRIS Database	IOC, SOC, VOC
Lakeside & First	Hanley 3-6	Former Fuel Storage Site	Leaking Underground Storage Tank Database	SOC, VOC
201 N 2 nd St	Hanley 3-6	Newspaper	Business Mailing List	IOC, VOC
311 E Lakeside Ave	Hanley 3-6	Muffler Shop	Business Mailing List	IOC, SOC, VOC
200 N 4 th St	Hanley 3-6	Painters	Business Mailing List	VOC
Northwest Blvd & Lakeside	Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
504 Lakeside Ave	Hanley 3-6	Former Fuel Storage Site, Printer	UST Database	SOC, VOC
118 N 7 th St	Hanley 3-6	Photographers	Business Mailing List	IOC, VOC
105 W Sherman Ave	Hanley 3-6	Radiator Shop	UST Database	IOC, SOC, VOC
105 W Sherman Ave	Hanley 3-6	Radiator Shop	Leaking Underground Storage Tank Database	IOC, SOC, VOC
107 N 5 th St	Hanley 3-6	Newspaper	RICRIS Database	IOC, VOC
105 N 4 th St	Hanley 3-6	Engravers	Business Mailing List	IOC, VOC
309 E Sherman Ave	Hanley 3-6	Boat Builders	Business Mailing List	IOC, SOC, VOC

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
City Dock,	Linden 0-3 YR Hanley 3-6	Air Taxi	UST Database	SOC, VOC
City Dock	Linden 0-3 YR Hanley 3-6	Air Taxi	SARA Database	SOC, VOC
401 E Sherman Ave	Hanley 3-6	Buses-Charter & Rental	Business Mailing List	IOC, SOC, VOC
Third & Front	Hanley 3-6	Resort fuel storage	UST Database	IOC, SOC
100 N 4 th St	Hanley 3-6	Printers	RICRIS Database	IOC, VOC
515 E Sherman Ave	Hanley 3-6	Photographic Equip & Supplies	Business Mailing List	IOC, VOC
523 E Sherman Ave	Hanley 3-6	Muffler Shop	Business Mailing List	IOC, SOC, VOC
424 Sherman	Hanley 3-6	City Shop	UST Database	IOC, SOC, VOC
701 Sherman Ave	Hanley 3-6	Gas Station	UST Database	SOC, VOC
602 Sherman Ave	Hanley 3-6	Gas Station	UST Database	SOC, VOC
319 E Front	Hanley 3-6	Photographer	Business Mailing List	IOC, VOC
615 E Front	Hanley 3-6	General Contractor	Business Mailing List	IOC, SOC, VOC
710 Mullan	Hanley 6-10	Municipal Fuel Storage	LUST Database UST Database	SOC, VOC
820 E Bancroft	Hanley 6-10	Trucking Firm	Business Mailing List	SOC, VOC
815 S 11th	Hanley 6-10	Electrical Contractor	Business Mailing List	IOC, VOC
E 1100 Lakeshore Dr	Hanley 6-10	Marina Fuel Storage	UST Database LUST Database	SOC, VOC

Table A-4. Linden St Well. City of Coeur d'Alene Potential Contaminant Inventory

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
301 1st St	Linden 0-3 YR Hanley 3-6	Swimming Pool	Enhanced Inventory	IOC, VOC
City Dock,	Linden 0-3 YR Hanley 3-6	Air Taxi	UST Database	SOC, VOC
City Dock	Linden 0-3 YR Hanley 3-6	Air Taxi	SARA Database	SOC, VOC

Table A-5. Locust St Well. City of Coeur d'Alene Potential Contaminant Inventory

ADDRESS	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS
104 E Poplar Ave	Locust 0-3 YR, Hanley 3-6	Building Contractors	Business Mailing List	IOC, SOC, VOC
108 E Poplar Ave	Locust 0-3 YR, Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
105 E Spruce Ave	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
107 E Spruce Ave	Locust 0-3 YR, Hanley 3-6	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
1512 N Government Way	Locust 0-3 YR, Hanley 3-6	Automobile Detail & Clean-Up	Business Mailing List	IOC, SOC, VOC
1422 N Government Way	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	Business Mailing List	IOC, SOC, VOC
1422 Government Way	Locust 0-3 YR, Hanley 3-6	Utility Company	UST Database	SOC, VOC
1422 Government Way	Locust 0-3 YR, Hanley 3-6	Utility Company	Leaking Underground Storage Tank Database	SOC, VOC
1201 Government Way	Locust 0-3 YR, Hanley 3-6	Former Fuel Storage Site	UST Database	SOC, VOC
608 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Newspapers (Publishers)	Business Mailing List	IOC, VOC
602 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Screen Printing	Business Mailing List	IOC, VOC
508 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Gas Station	UST Database	SOC, VOC
508 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Gas Station	SARA Database	SOC, VOC
302 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Rental	UST Database	IOC, SOC, VOC
302 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Rental	Leaking Underground Storage Tank Database	IOC, SOC, VOC
417 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Automobile Parts Store	Business Mailing List	IOC, SOC, VOC
415 Northwest Blvd	Locust 0-3 YR, Hanley 3-6	Auto Body Shop	RICRIS Database	IOC, SOC, VOC

Table A-6. Honeysuckle Well. City of Coeur d'Alene Potential Contaminant Inventory

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	SOURCE OF INFORMATION	POTENTIAL CONTAMINANTS ¹
1	0-3 YR YR	Taxidermists	Business Mailing List	IOC, SOC, MICROBIAL
2	0-3 YR YR	Tree Service	Business Mailing List	SOC, VOC
3	0-3 YR YR	General Contractors	Business Mailing List	IOC, SOC, VOC
4	0-3 YR YR	Business Forms Printer	Business Mailing List	IOC, VOC
5	0-3 YR YR	Water Company	Business Mailing List	IOC, SOC
6	0-3 YR YR	Parking Area Maintenance & Marking Business	Business Mailing List	SOC, VOC
7	0-3 YR YR	Garbage Collection	Business Mailing List	IOC, SOC, VOC, MICROBIAL
8	6-10 YR	Closed Fuel Storage Tank	UST Database	SOC, VOC
9	6-10 YR	Animal Hospital /Veterinarian	Business Mailing List	IOC, SOC, MICROBIAL
11	6-10 YR	Telephone Company,	SARA	SOC, VOC
12	6-10 YR	Buses-Charter & Rental	Business Mailing List	SOC, VOC
13	6-10 YR	Closed Fuel Storage Tank	UST Database	IOC, SOC

Table A-7. Prairie Well City of Coeur d'Alene Potential Contaminant Inventory

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	Source Of Information	POTENTIAL CONTAMINANTS
1	Prairie 0-3 YR	Computer Parts manufacturer plastic molds	Enhanced Inventory	IOC, SOC, VOC
2	Prairie 0-3 YR	Mason Contractors Equip & Supplies Wholesaler	Business Mailing List	IOC, SOC, VOC
3	Prairie 0-3 YR	Storage-Household & Commercial	Business Mailing List	IOC, SOC, VOC, MICROBIAL
4	Prairie 0-3 YR	Tire-Dealers-	Business Mailing List	IOC, SOC, VOC
5	Prairie 0-3 YR	Contractors-Equipment & Supplies Rental	Business Mailing List	IOC, VOC, SOC
6	Prairie 0-3 YR	Rental Service-Stores & Yards	Business Mailing List	IOC, VOC
7	Prairie 0-3 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
8	Prairie 0-3 YR	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
9	Prairie 0-3 YR	Sheet Metal Work Contractors	Business Mailing List	IOC, VOC
10	Prairie 3-6 YR	PLUMBING SHOP	UST Database	IOC, VOC
11	Prairie 3-6 YR	Auto Repair	RICRIS	IOC, SOC, VOC
12	Prairie 0-3 YR	Lawn & Garden Equip & Supplies-Ret	Business Mailing List	IOC, SOC, VOC
13	Prairie 0-3 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
14	Prairie 0-3 YR	Photographic Equip & Supplies-	Business Mailing List	IOC, VOC
15	Prairie 0-3 YR	Plumbing Fixtures & Supplies-	Business Mailing List	IOC, SOC, VOC
16	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
17	Prairie 3-6 YR	Manufacturers	Business Mailing List	IOC, SOC, VOC
18	Prairie 3-6 YR	General Contractors	Business Mailing List	IOC, SOC, VOC
19	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
20	Prairie 3-6 YR	Transmissions-Automobile	Business Mailing List	IOC, SOC, VOC

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	Source Of Information	POTENTIAL CONTAMINANTS
21	Prairie 3-6 YR	Automobile and Marine Repairing & Service	Business Mailing List	IOC, SOC, VOC
22	Prairie 3-6 YR	Photographers-Portrait	Business Mailing List	IOC, VOC
23	Prairie 3-6 YR	Farm and Feed Store	Business Mailing List	IOC, SOC, VOC, Microbial
24	Prairie 3-6 YR	Storage-Household & Commercial	Business Mailing List	IOC, SOC, VOC, Microbial
25	Prairie 3-6 YR	Automobile Body-Repairing & Painting	Business Mailing List	IOC, SOC, VOC
26	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
27	Prairie 3-6 YR	Glass Coating & Tinting	Business Mailing List	IOC, VOC
28	Prairie 3-6 YR	Woodworkers	Business Mailing List	SOC, VOC
29	Prairie 3-6 YR	Asphalt & Asphalt Products	Business Mailing List	IOC, SOC, VOC
30	Prairie 3-6 YR	Roofing Contractors	Business Mailing List	IOC, SOC, VOC
31	Prairie 3-6 YR	Leaking underground storage tank	LUST Database	SOC, VOC
32	Prairie 3-6 YR	Service Station	SARA	SOC, VOC
33	Prairie 3-6 YR	Service Station	UST Database	SOC, VOC
34	Prairie 3-6 YR	Auto repair	Enhanced Inventory	IOC, SOC, VOC
35	Prairie 3-6 YR	Storage-Household & Commercial	Business Mailing List	IOC, SOC, VOC, Microbial
36	Prairie 3-6 YR	Industrial Storage	Business Mailing List	IOC, SOC, VOC
37	Prairie 3-6 YR	Machine Shop	Business Mailing List	IOC, SOC, VOC
38	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
39	Prairie 3-6 YR	Signs (Manufacturers)	Business Mailing List	IOC, SOC, VOC
40	Prairie 3-6 YR	Storage-Household & Commercial	Business Mailing List	IOC, SOC, VOC, Microbial
41	Prairie 3-6 YR	Feed-Dealers (Wholesale)	Business Mailing List	IOC, SOC, Microbial
42	Prairie 3-6 YR	Steel Fabricators	RICRIS	IOC, SOC, VOC
43	Prairie 3-6 YR	Cabinet Makers	Business Mailing List	SOC, VOC
44	Prairie 3-6 YR	Landscape Contractors	Business Mailing List	IOC, SOC, VOC
45	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
46	Prairie 3-6 YR	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
47	Prairie 3-6 YR	Laboratories-Veterinary	Business Mailing List	IOC, SOC, VOC MICROBIAL
48	Prairie 3-6 YR	Hydraulic Equipment-Repairing	Business Mailing List	IOC, SOC, VOC
49	Prairie 3-6 YR	Plumbing Fixtures & Supplies-Wholesaler	Business Mailing List	IOC, SOC, VOC
50	Prairie 3-6 YR	Photographers-Portrait	Business Mailing List	IOC, SOC
51	Prairie 3-6 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
52	Prairie 3-6 YR	Fuel Storage closed	UST Database	IOC, SOC, VOC
53	Prairie 3-6 YR	Cabinet Maker General Contractor	Business Mailing List	IOC, SOC, VOC
54	Prairie 3-6 YR	Automobile Dealers-Used Cars	Business Mailing List	IOC, SOC, VOC
55	Prairie 3-6 YR	Fuel Storage	UST Database	SOC, VOC
56	Prairie 3-6 YR	Electric Equipment & Supplies-Wholesaler	Business Mailing List	IOC, SOC, VOC
57	Prairie 3-6 YR	Automobile Parts & Supplies	Business Mailing List	IOC, SOC, VOC

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	Source Of Information	POTENTIAL CONTAMINANTS
58	Prairie 3-6 YR	Photographic Equipment-Repair	Business Mailing List	IOC, VOC
59	Prairie 3-6 YR	Auto Radiator & Air Conditioning	RICRIS	IOC, SOC, VOC
60	Prairie 3-6 YR	Car Wash	Enhanced Inventory	IOC, SOC, VOC
61	Prairie 3-6 YR	Fuel Storage Tank	UST Database	SOC, VOC
62	Prairie 3-6 YR	Car Washing & Polishing	Business Mailing List	IOC, SOC, VOC
63	Prairie 3-6 YR	Signs (Manufacturers)	Business Mailing List	IOC, SOC, VOC
64	Prairie 3-6 YR	Carpet & Rug Cleaners	Business Mailing List	IOC, SOC, VOC
65	Prairie 3-6 YR	Truck-Repairing & Service	Business Mailing List	IOC, SOC, VOC
66	Prairie 3-6 YR	Cylinder Heads-Manufacturers	Business Mailing List	IOC, SOC, VOC
67	Prairie 3-6 YR	Transmissions-Automobile	Business Mailing List	IOC, SOC, VOC
68	Prairie 3-6 YR	Campground	Business Mailing List	IOC, SOC, VOC, MICROBIAL
69	Prairie 6-10 YR	Veterinarians	Business Mailing List	IOC, SOC, MICROBIAL
70	Prairie 6-10 YR	Tire-Dealers-Retail	Business Mailing List	IOC, SOC, VOC
71	Prairie 6-10 YR	Machine Tools-Repairing/Rebuilding	Business Mailing List	IOC, SOC, VOC
72	Prairie 6-10 YR	Roofing Contractors	Business Mailing List	IOC, SOC, VOC
73	Prairie 6-10 YR	Movers	Business Mailing List	IOC, SOC, VOC
74	Prairie 6-10 YR	Radiator Shop	Enhanced Inventory	IOC, SOC, VOC
75	Fourth 0-3 YR Prairie 6-10 YR	Building Contractors	Business Mailing List	IOC, VOC, SOC
76	Fourth 0-3 YR Prairie 6-10 YR	General Contractors	Business Mailing List	IOC, VOC, SOC
77	Prairie 6-10 YR	Wrecker Service	Business Mailing List	IOC, SOC, VOC
78	Fourth 0-3 YR Prairie 6-10 YR	Fuel Storage Tank	UST Database	SOC, VOC
79	Prairie 6-10 YR	Fuel Storage Tank	UST Database	SOC, VOC
80	Prairie 6-10 YR	Closed Fuel Storage	LUST Database	SOC, VOC
81	Prairie 6-10 YR	Closed Fuel Storage	UST Database	SOC, VOC
82	Prairie 6-10 YR	Janitor Service	Business Mailing List	IOC, SOC, VOC
83	Prairie 6-10 YR	Meat Packers	Business Mailing List	IOC, MICROBIAL
84	Fourth 0-3 YR Prairie 6-10 YR	Automobile Parts & Supplies-Retail	Business Mailing List	SOC, IOC, VOC
85	Fourth 0-3 YR Prairie 6-10 YR	Taxidermists	Business Mailing List	IOC, SOC, MICROBIAL
86	Fourth 0-3 YR Prairie 6-10 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
87	Fourth 0-3 YR Prairie 6-10 YR	Wheel Alignment-Frame & Axle Service	Business Mailing List	IOC, SOC, VOC
88	Fourth 0-3 YR Prairie 6-10 YR	Sign Manufacturers	Business Mailing List	IOC, VOC
89	Prairie 6-10 YR	Automobile Body-Repairing & Painting	Business Mailing List	IOC, SOC, VOC
90	Prairie 6-10 YR	Automobile Detail & Clean-Up Service	Business Mailing List	IOC, SOC, VOC

MAP ID NUMBER	TIME OF TRAVEL ZONE	SITE DESCRIPTION	Source Of Information	POTENTIAL CONTAMINANTS
91	Prairie 6-10 YR	Auto Sales, Service & Detailing	Business Mailing List	IOC, SOC, VOC
92	Prairie 6-10 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
93	Prairie 6-10 YR	Roofing Contractors	Business Mailing List	IOC, SOC, VOC
94	Prairie 6-10 YR	Wrecker Service	Business Mailing List	IOC, SOC, VOC
95	Prairie 6-10 YR	Automobile Repairing & Service	Business Mailing List	IOC, SOC, VOC
96	Prairie 6-10 YR	General Contractors	Business Mailing List	IOC, SOC, VOC
97	Prairie 6-10 YR	Recycling Center	Business Mailing List	IOC
98	Prairie 6-10 YR	Wrecker Service	Business Mailing List	IOC, SOC, VOC
99	Fourth 0-3 YR Prairie 6-10 YR	Automobile Wrecking (Wholesale)	Business Mailing List	IOC, SOC, VOC
100	Prairie 6-10 YR	Building Contractors	Business Mailing List	IOC, SOC, VOC
101	Prairie 6-10 YR	Taxicabs	Business Mailing List	SOC, VOC
102	Prairie 6-10 YR	Automobile Dealers-New Cars	Business Mailing List	SOC, VOC
103	Prairie 6-10 YR	Oils-Fuel (Wholesale)	Business Mailing List	SOC, VOC
104	Prairie 6-10 YR	Service Station	SARA	SOC, VOC
105	Prairie 6-10 YR	Delivery Service	Business Mailing List	SOC, VOC
106	Prairie 6-10 YR	Fuel Storage Tank	UST Database	SOC, VOC
107	Prairie 6-10 YR	Truck Stop	Business Mailing List	SOC, VOC
108	Prairie 6-10 YR	Gas Station	UST Database	SOC, VOC
109	Fourth 0-3 YR Prairie 6-10 YR	Veterinarian	Business Mailing List	IOC, SOC, MICROBIAL
110	Prairie 6-10 YR	Motel & Pool	RICRIS	IOC
111	Prairie 6-10 YR	Truck Stop	RICRIS	SOC, VOC
112	Prairie 6-10 YR	Truck Stop	LUST Database	SOC, VOC
113	Prairie 6-10 YR	Truck Stop	UST Database	SOC, VOC
114	Prairie 6-10 YR	Painting Contractor	Business Mailing List	IOC, VOC

Appendix B

City of Coeur d'Alene Susceptibility Analysis Worksheets

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **ATLAS WELL**

Public Water System Number : **1280053**

2/14/02 7:54:15 AM

1. System Construction		SCORE			
Drill Date	8/19/71				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES 2000				
Well meets IDWR construction standards	YES	0			
Wellhead and surface seal maintained	YES	0			
Casing and annular seal extend to low permeability unit	NO	2			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
Total System Construction Score		3			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
Total Hydrologic Score		6			
3. Potential Contaminant / Land Use -ZONE 1A (Sanitary Setback)		IOC	VOC	SOC	Microbial
		Score	Score	Score	Score
Predominant Land Use in Entire Recharge Zone	URBAN/COMMERCIAL	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES Dacthal	NO	NO	YES	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources)	YES	3	1	3	1
(Score = # Sources X 2) 8 Points Maximum		6	20	6	2
Sources of Class II or III leacheable contaminants or Microbials	YES	3	1	3	
4 Points Maximum		3	1	3	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	25 to 50% Irrigated Nursery, Golf Course	2	2	2	2
Total Potential Contaminant Source / Land Use Score - Zone 1B		11	5	11	4
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present					
Sources of Class II or III leacheable contaminants or Microbials					
Land Use Zone II					
Potential Contaminant Source / Land Use Score - Zone II					
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present					
Sources of Class II or III leacheable contaminants or Microbials					
Is there irrigated agricultural lands that occupy > 50% of Zone					
Total Potential Contaminant Source / Land Use Score - Zone III					
Cumulative Potential Contaminant / Land Use Score		10	4	10	4
4. Final Susceptibility Source Score		11	10	11	11
5. Final Well Ranking		Moderate	Moderate	*High	Moderate

Ground Water Susceptibility

Public Water System Name : COEUR D'ALENE CITY OF

Source: FOURTH ST WELL

Public Water System Number : 1280053

2/20/02 8:17:32 AM

1. System Construction		SCORE			
Drill Date	Deepened Idaho Water Co. Well	3/19/68			
Driller Log Available		YES			
Sanitary Survey (if yes, indicate date of last survey)		YES 2000			
Well meets IDWR construction standards	Depth of surface seal unknown		1		
Wellhead and surface seal maintained		YES	0		
Casing and annular seal extend to low permeability unit		NO	2		
Highest production 100 feet below static water level		NO	1		
Well located outside the 100 year flood plain		YES	0		
Total System Construction Score			4		
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained		NO	2		
Vadose zone composed of gravel, fractured rock or unknown		YES	1		
Depth to first water > 300 feet		NO	1		
Aquitard present with > 50 feet cumulative thickness		NO	2		
Total Hydrologic Score			6		
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)		IOC	VOC	SOC	Microbial
		Score	Score	Score	Score
Land Use in entire recharge zone	URBAN/COMMERCIAL	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES	NO	YES	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources. 4 Points Maximum)	YES	4	4	4	2
(Score = # Sources X 2) 8 Points Maximum		8	8	8	4
Sources of Class II or III leacheable contaminants or Microbials	YES	4	4	4	
4 Points Maximum		4	4	4	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B		12	12	12	4
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present	NO	0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NO	0	0	0	
Land Use Zone II	Less than 25% Agricultural Land	0	0	0	
Potential Contaminant Source / Land Use Score - Zone II		0	0	0	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present					
Sources of Class II or III leacheable contaminants or Microbials					
Is there irrigated agricultural lands that occupy > 50% of Zone					
Total Potential Contaminant Source / Land Use Score - Zone III					
Cumulative Potential Contaminant / Land Use Score		14	14	14	6
4. Final Susceptibility Source Score		13	13	13	12
5. Final Well Ranking		High	High	High	Moderate

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **HANLEY WELL**

Public Water System Number : **1280053**

2/20/02 12:38:58 PM

1. System Construction		SCORE			
Drill Date	6/16/90				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES 2000				
Well meets IDWR construction standards	YES	0			
Wellhead and surface seal maintained	YES	0			
Casing and annular seal extend to low permeability unit	NO	2			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
Total System Construction Score		3			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
Total Hydrologic Score		6			
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)		IOC	VOC	SOC	Microbial
		Score	Score	Score	Score
Predominant Land Use in Whole Recharge Zone	URBAN	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES	YES	YES	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources. 4 Points Maximum)	YES	4	4	4	2
(Score = # Sources X 2) 8 Points Maximum		8	8	8	4
Sources of Class II or III leacheable contaminants or Microbials	YES	4	4	4	
4 Points Maximum		4	4	4	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B		12	12	12	4
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present	YES	2	2	2	
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
Land Use Zone II	Less than 25% Agricultural Land	0	0	0	
Potential Contaminant Source / Land Use Score - Zone II		3	3	3	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present	YES	1	1	1	
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
Is there irrigated agricultural lands that occupy > 50% of Zone	NO	0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III		2	2	2	0
Cumulative Potential Contaminant / Land Use Score		19	19	19	6
4. Final Susceptibility Source Score		13	13	13	11
5. Final Well Ranking		*High	*High	Moderate	Moderate

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **LINDEN ST WELL**

Public Water System Number : **1280053**

2/27/02 9:18:02 AM

1. System Construction		SCORE			
Drill Date	5/25/66				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES 2000				
Well meets IDWR construction standards	YES	0			
Wellhead and surface seal maintained	Plugs missing in wellhead	1			
Casing and annular seal extend to low permeability unit	CASING YES. SEAL NO	1			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
Total System Construction Score		3			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
Total Hydrologic Score		6			
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)		IOC	VOC	SOC	Microbial
		Score	Score	Score	Score
Land Use Zone 1A	URBAN/COMMERCIAL	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	NO	NO	NO	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources)	YES	1	3	2	0
(Score = # Sources X 2) 8 Points Maximum		2	6	4	0
Sources of Class II or III leacheable contaminants or Microbials	YES	1	3	2	
4 Points Maximum		1	3	2	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B		3	9	6	0
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present	NO	0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NO	0	0	0	
Land Use Zone II		0	0	0	
Potential Contaminant Source / Land Use Score - Zone II		0	0	0	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present	NO	0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NO	0	0	0	
Is there irrigated agricultural lands that occupy > 50% of Zone	NO	0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III		0	0	0	0
Cumulative Potential Contaminant / Land Use Score		5	11	8	2
4. Final Susceptibility Source Score		10	11	11	10
5. Final Well Ranking		Moderate	Moderate	Moderate	Moderate

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **LOCUST ST WELL**

Public Water System Number : **1280053**

2/28/02 8:34:18 AM

1. System Construction			SCORE			
Drill Date	Well Deepend	4/22/68				
Driller Log Available		YES				
Sanitary Survey (if yes, indicate date of last survey)		YES 2000				
Well meets IDWR construction standards		Unknown	1			
Wellhead and surface seal maintained		YES	0			
Casing and annular seal extend to low permeability unit		NO	2			
Highest production 100 feet below static water level		NO	1			
Well located outside the 100 year flood plain		YES	0			
Total System Construction Score			4			
2. Hydrologic Sensitivity						
Soils are poorly to moderately drained		NO	2			
Vadose zone composed of gravel, fractured rock or unknown		Unknown	1			
Depth to first water > 300 feet		NO	1			
Aquitard present with > 50 feet cumulative thickness		NO	2			
Total Hydrologic Score			6			
			IOC	VOC	SOC	Microbial
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)			Score	Score	Score	Score
Land Use Zone 1A	URBAN/COMMERCIAL		2	2	2	2
Farm chemical use high	NO		0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES. See chemical test results table.		NO	YES	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A			2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)						
Contaminant sources present (Number of Sources--4 points Maximum)	YES. See Potential Contaminant Inventory Table		4	4	4	0
(Score = # Sources X 2) 8 Points Maximum			8	8	8	0
Sources of Class II or III leacheable contaminants or Microbials	YES		4	4	4	
4 Points Maximum			4	4	4	
Zone 1B contains or intercepts a Group 1 Area	NO		0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land		0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B			12	12	12	0
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)						
Contaminant Sources Present	NA		0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NA		0	0	0	
Land Use Zone II			0	0	0	
Potential Contaminant Source / Land Use Score - Zone II			0	0	0	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)						
Contaminant Source Present	NA		0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NA		0	0	0	
Is there irrigated agricultural lands that occupy > 50% of Zone	NA		0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III			0	0	0	0
Cumulative Potential Contaminant / Land Use Score			14	14	14	2
4. Final Susceptibility Source Score			13	13	13	11
5. Final Well Ranking			High	High	High	Moderate

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **HONEYSUCKLE WELL**

Public Water System Number : **1280053**

2/14/02 2:21:08 PM

1. System Construction		SCORE			
Drill Date	11/15/96				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES 2000				
Well meets IDWR construction standards	YES	0			
Wellhead and surface seal maintained	YES	0			
Casing and annular seal extend to low permeability unit	SEAL NO. CASING YES	1			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
Total System Construction Score		2			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
Total Hydrologic Score		6			
		IOC	VOC	SOC	Microbial
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)		Score	Score	Score	Score
Predominant Land Use In Entire Recharge Zone	URBAN/COMMERCIAL	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	YES	NO	YES	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources)	YES Small home based businesses. See inventory	1	1	1	1
(Score = # Sources X 2) 8 Points Maximum		2	2	2	2
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
4 Points Maximum		1	1	1	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B		3	3	3	2
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present	Home based business. See inventory	0	0	0	
Sources of Class II or III leacheable contaminants or Microbials	NO	0	0	0	
Land Use Zone II	Less than 25% Agricultural Land	0	0	0	
Potential Contaminant Source / Land Use Score - Zone II		0	0	0	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present	YES	1	1	1	
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
Is there irrigated agricultural lands that occupy > 50% of Zone	NO	0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III		2	2	2	0
Cumulative Potential Contaminant / Land Use Score		7	7	7	4
4. Final Susceptibility Source Score		9	9	9	10
5. Final Well Ranking		Moderate	*High	Moderate	Moderate

Ground Water Susceptibility

Public Water System Name : **COEUR D'ALENE CITY OF**

Source: **PRAIRIE WELL**

Public Water System Number : **1280053**

2/20/02 10:05:17 AM

1. System Construction		SCORE			
Drill Date	5/1/99				
Driller Log Available	YES				
Sanitary Survey (if yes, indicate date of last survey)	YES 2000				
Well meets IDWR construction standards	YES	0			
Wellhead and surface seal maintained	YES	0			
Casing and annular seal extend to low permeability unit	NO	2			
Highest production 100 feet below static water level	NO	1			
Well located outside the 100 year flood plain	YES	0			
Total System Construction Score		3			
2. Hydrologic Sensitivity					
Soils are poorly to moderately drained	NO	2			
Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Depth to first water > 300 feet	NO	1			
Aquitard present with > 50 feet cumulative thickness	NO	2			
Total Hydrologic Score		6			
3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Setback)		IOC	VOC	SOC	Microbial
		Score	Score	Score	Score
Predominant Land Use In Well Recharge Zone	URBAN/COMMERCIAL	2	2	2	2
Farm chemical use high	NO	0	0	0	
IOC, VOC, SOC, or Microbial sources in Zone 1A	NO	NO	NO	NO	NO
Total Potential Contaminant Source/Land Use Score - Zone 1A		2	2	2	2
Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT)					
Contaminant sources present (Number of Sources-4 Points Maximum)	YES	4	4	4	1
(Score = # Sources X 2) 8 Points Maximum		8	8	8	2
Sources of Class II or III leacheable contaminants or Microbials	YES	4	4	4	
4 Points Maximum		4	4	4	
Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Total Potential Contaminant Source / Land Use Score - Zone 1B		12	12	12	2
Potential Contaminant / Land Use - ZONE II (6 YR. TOT)					
Contaminant Sources Present	YES	2	2	2	
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
Land Use Zone II	Less than 25% Agricultural Land	0	0	0	
Potential Contaminant Source / Land Use Score - Zone II		3	3	3	0
Potential Contaminant / Land Use - ZONE III (10 YR. TOT)					
Contaminant Source Present	YES	1	1	1	
Sources of Class II or III leacheable contaminants or Microbials	YES	1	1	1	
Is there irrigated agricultural lands that occupy > 50% of Zone	NO	0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III		2	2	2	0
Cumulative Potential Contaminant / Land Use Score		19	19	19	4
4. Final Susceptibility Source Score		13	13	13	11
5. Final Well Ranking		High	High	High	Moderate

POTENTIAL CONTAMINANT INVENTORY

LIST OF ACRONYMS AND DEFINITIONS

AST (Aboveground Storage Tanks) – Sites with aboveground storage tanks.

Business Mailing List – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

CERCLIS – This includes sites considered for listing under the **Comprehensive Environmental Response Compensation and Liability Act (CERCLA)**. CERCLA, more commonly known as Superfund is designed to clean up hazardous waste sites that are on the national priority list (NPL).

Cyanide Site – DEQ permitted and known historical sites/facilities using cyanide.

Dairy – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

Deep Injection Well – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain – This is a coverage of the 100year floodplains.

Group 1 Sites – These are sites that show elevated levels of contaminants and are not within the priority one areas.

Inorganic Priority Area – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

Landfill – Areas of open and closed municipal and non-municipal landfills.

LUST (Leaking Underground Storage Tank) – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

Mines and Quarries – Mines and quarries permitted through the Idaho Department of Lands.)

Nitrate Priority Area – Area where greater than 25% of wells/springs show nitrate values above 5mg/l.

NPDES (National Pollutant Discharge Elimination System) – Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

Organic Priority Areas – These are any areas where greater than 25 % of wells/springs show levels greater than 1% of the primary standard or other health standards.

Recharge Point – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RICRIS – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

UST (Underground Storage Tank) – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

Wastewater Land Applications Sites – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

Wellheads – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Where possible, a list of potential contaminant sites unable to be located with geocoding will be provided to water systems to determine if the potential contaminant sources are located within the source water assessment area.